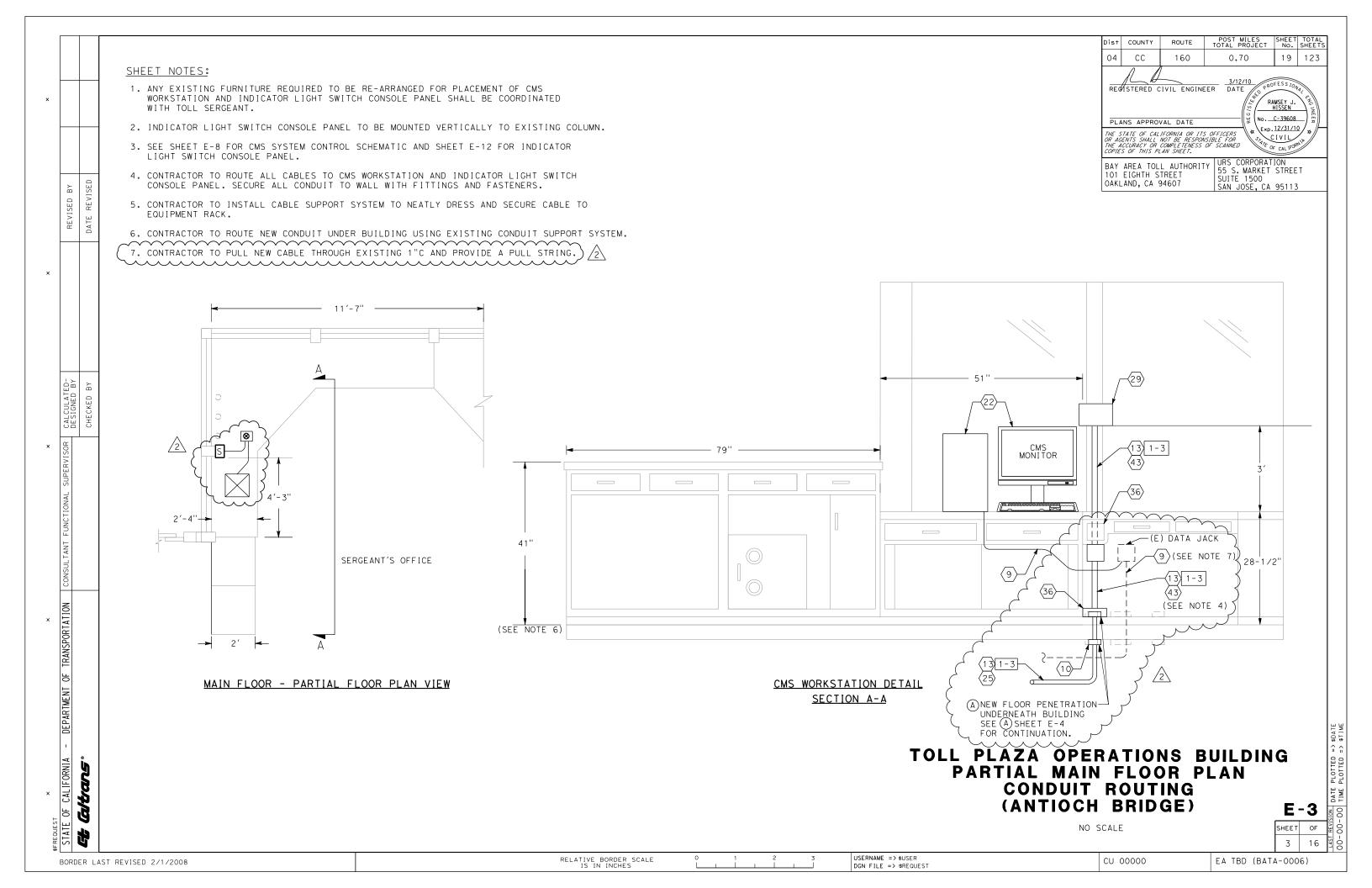


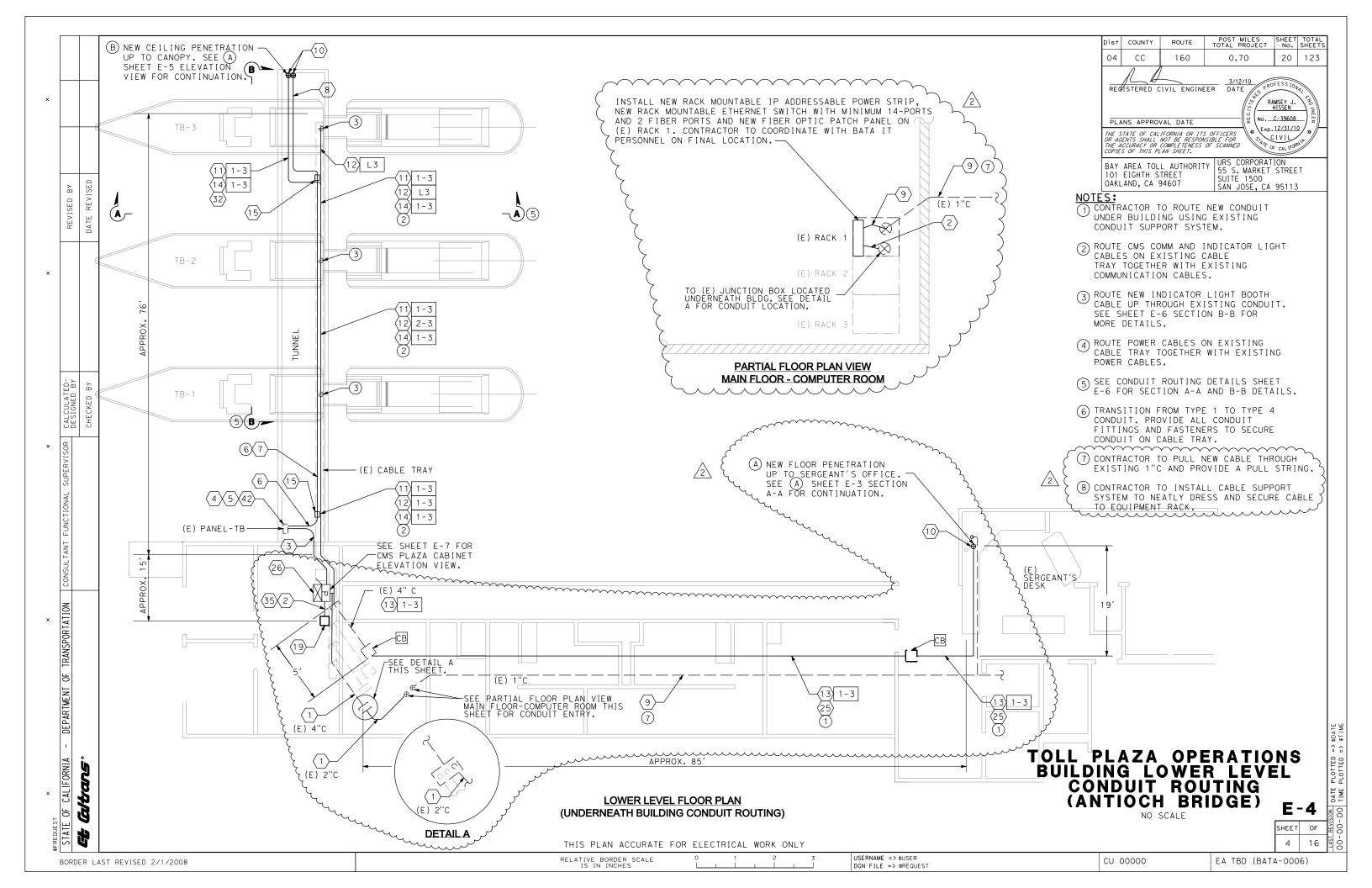
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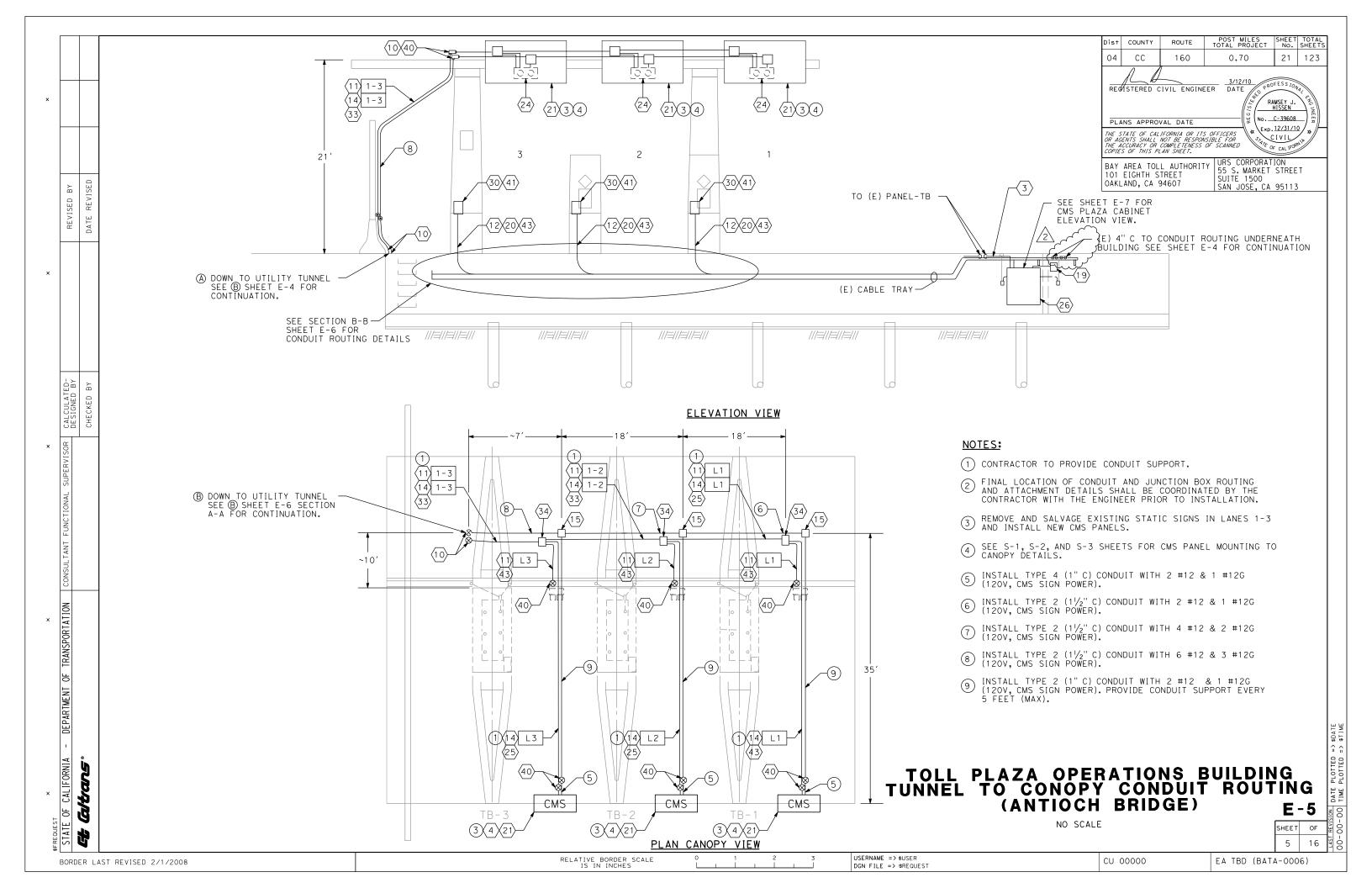
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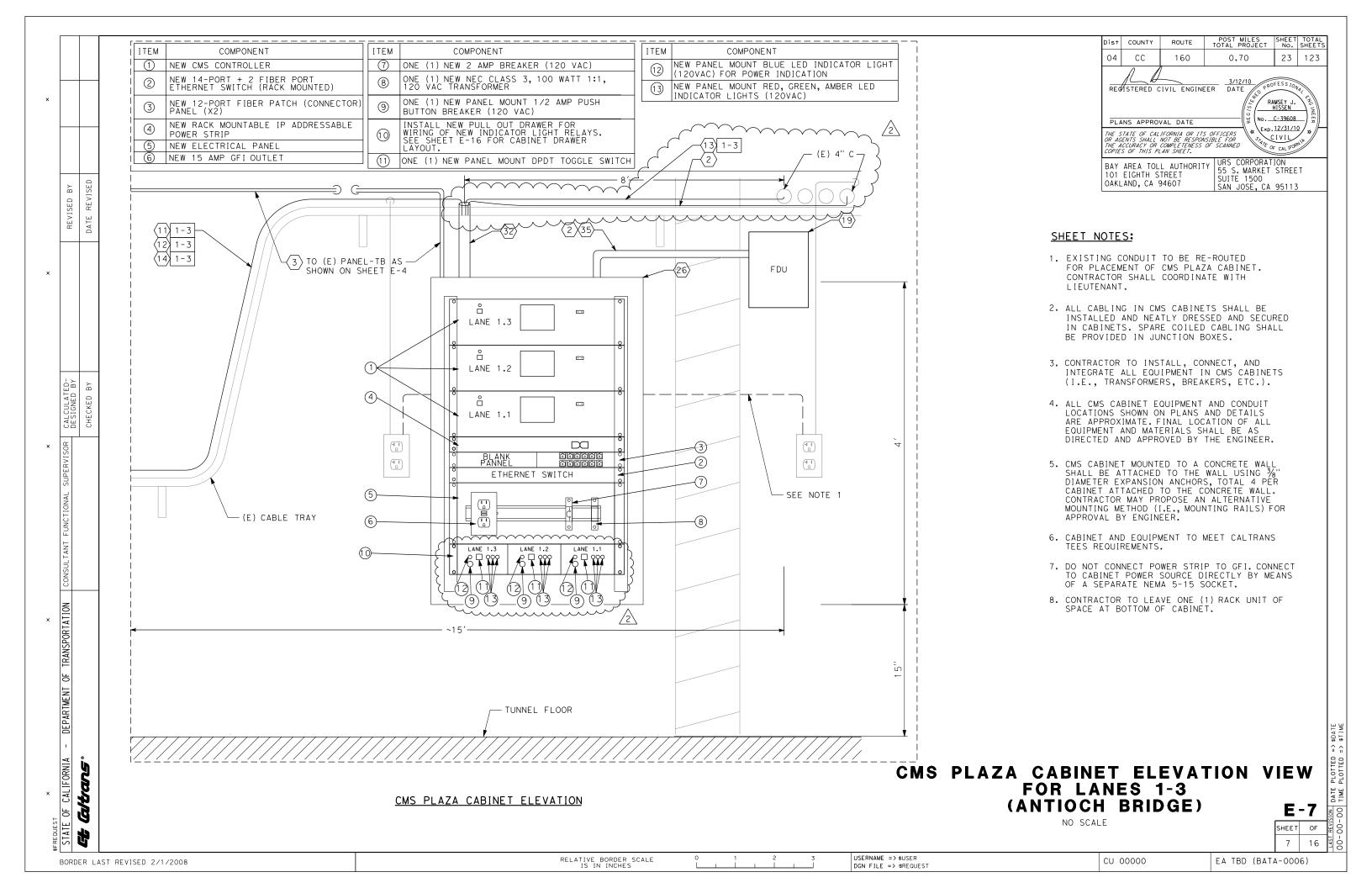
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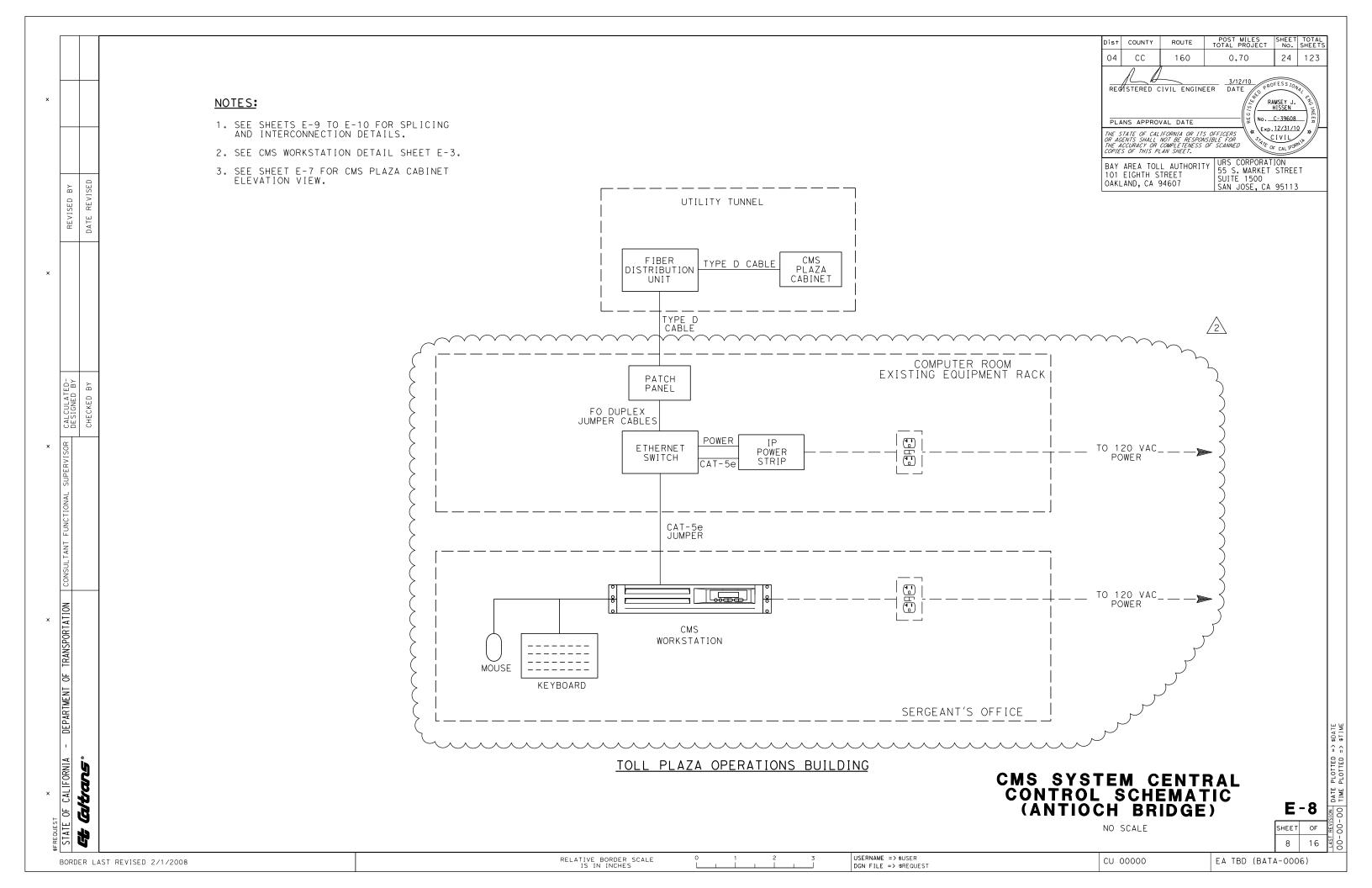
DEPARTMENT OF TRANSPORTATION CONSULTANT FUNCTIONAL SUPERVISOR CALCULATED-DESIGNED BY REVISED BY CHECKED BY DATE REVISED	PROJECT NOTES: (1) INSTALL NEW TYPE D CABLE IN EXISTING CONDUIT. (2) INSTALL NEW TYPE D CABLE. (3) INSTALL NEW TYPE D CABLE. (4) INSTALL NEW TYPE 1 (3/4°C) COMDUIT WITH (2 312 AND 3120) (120 V, CMS CABINET). (5) INSTALL NEW TYPE 1 (11/4°C) COMDUIT WITH (2 312 AND 3120) (120 V, CMS SIGN). (6) INSTALL NEW THREE(S1194-1P CIPCOUT BREAKER FOR NEW CMS CABINET IN (E)SPACE #10. (7) INSTALL TYPE 1 (11/4°C) COMDUIT WITH 6 #12 AND 3 #120 (120 V, CMS SIGNS). (8) ROUTE COMOULT IN (2) CADULT WITH 6 #12 AND 3 #120 (120 V, CMS SIGNS). (9) INSTALL TYPE 4 (11/4°C) COMDUIT WITH 6 #12 AND 3 #120 (120 V, CMS SIGNS). (9) INSTALL NEW CABLE THREE T	DISTALL NEW THE CONSULT SHITCH CONSULE PAREL. (B) INSTALL NEW THE CONSULT SHITCH CONSULE PAREL. (B) INSTALL NEW THE CONSULT SHITCH CONSULE PAREL. (C) INSTALL NEW THE CONSULT SHITCH CONSULE PAREL. (D) REMOVE EXISTING INDICATOR LIGHT SHITCH CONSULE PAREL. (E) INSTALL NEW THE CONSULT SHITCH CONSULT PAREL CASES FROM EACH CMS CONTROLLER TO NEW EMERICAL SHITCH IN EXISTING CONSULTS. (E) INSTALL NEW THE CONSULT SHITCH CONSULTS. (E) INSTALL NEW THE CONSULTS. (E) INSTALL NEW THE CONSULT SHITCH SHITCH CONSULTS. (E) INSTALL NEW THE CONSULTS. (E) INSTALL
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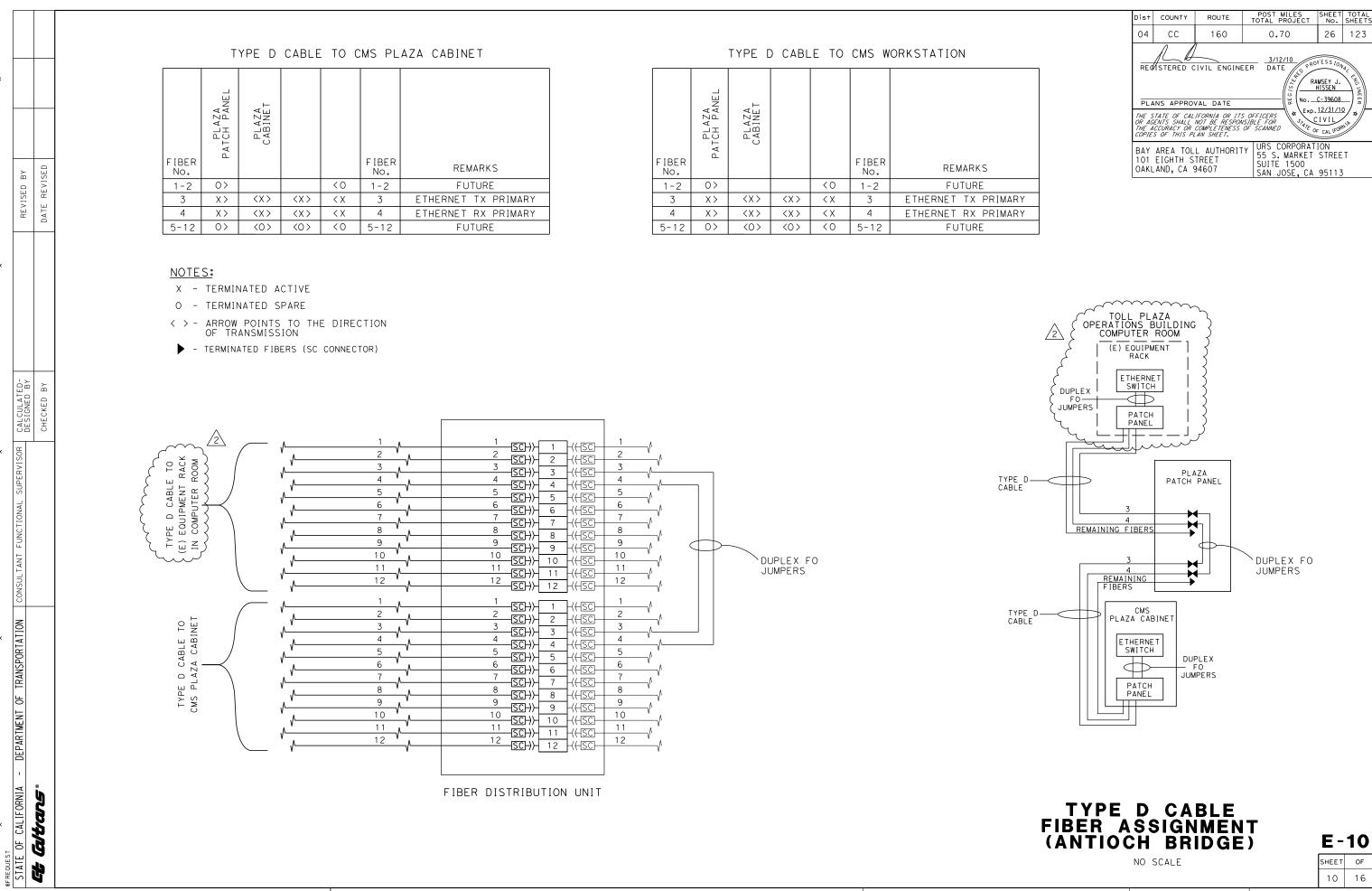












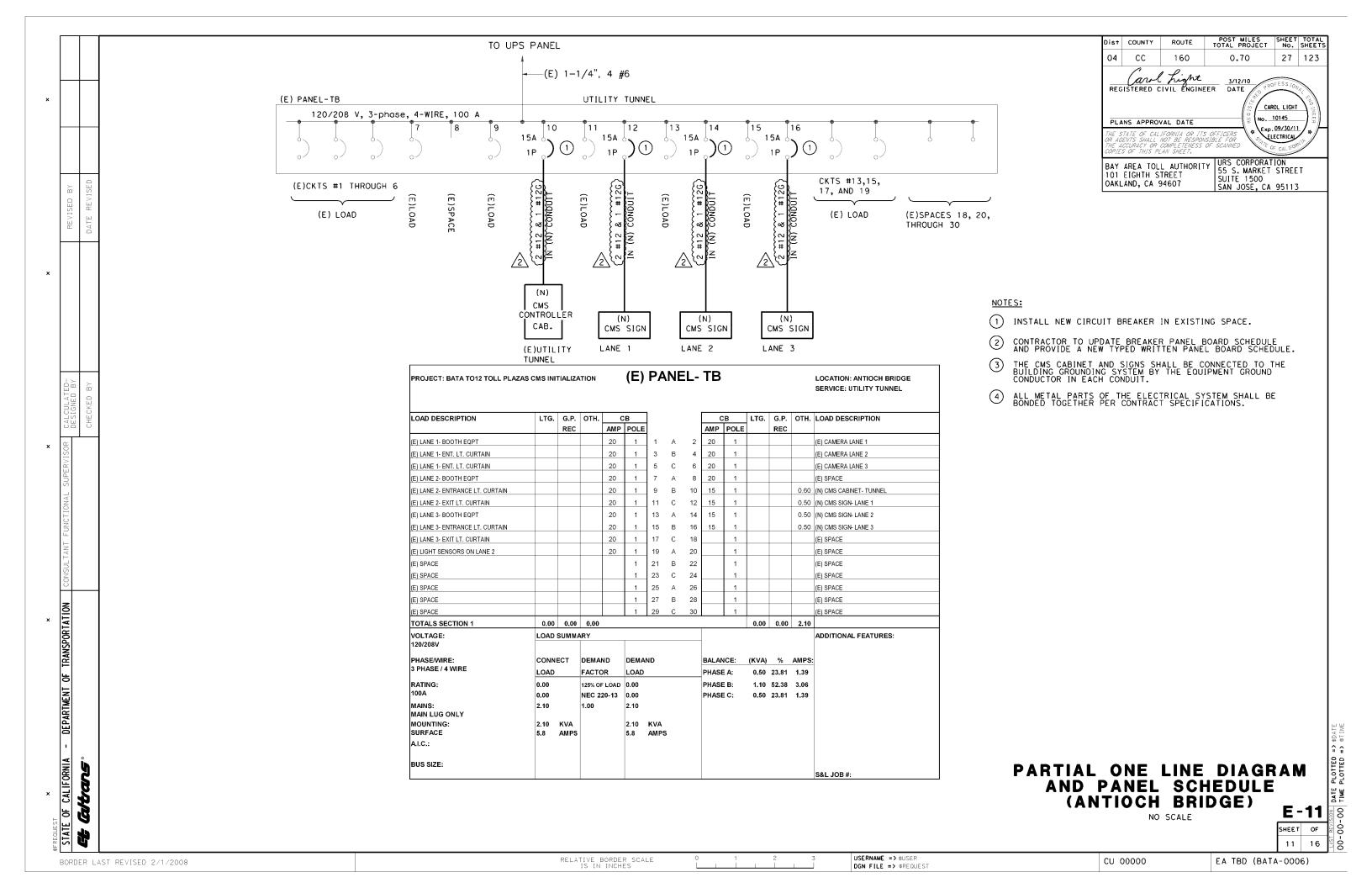
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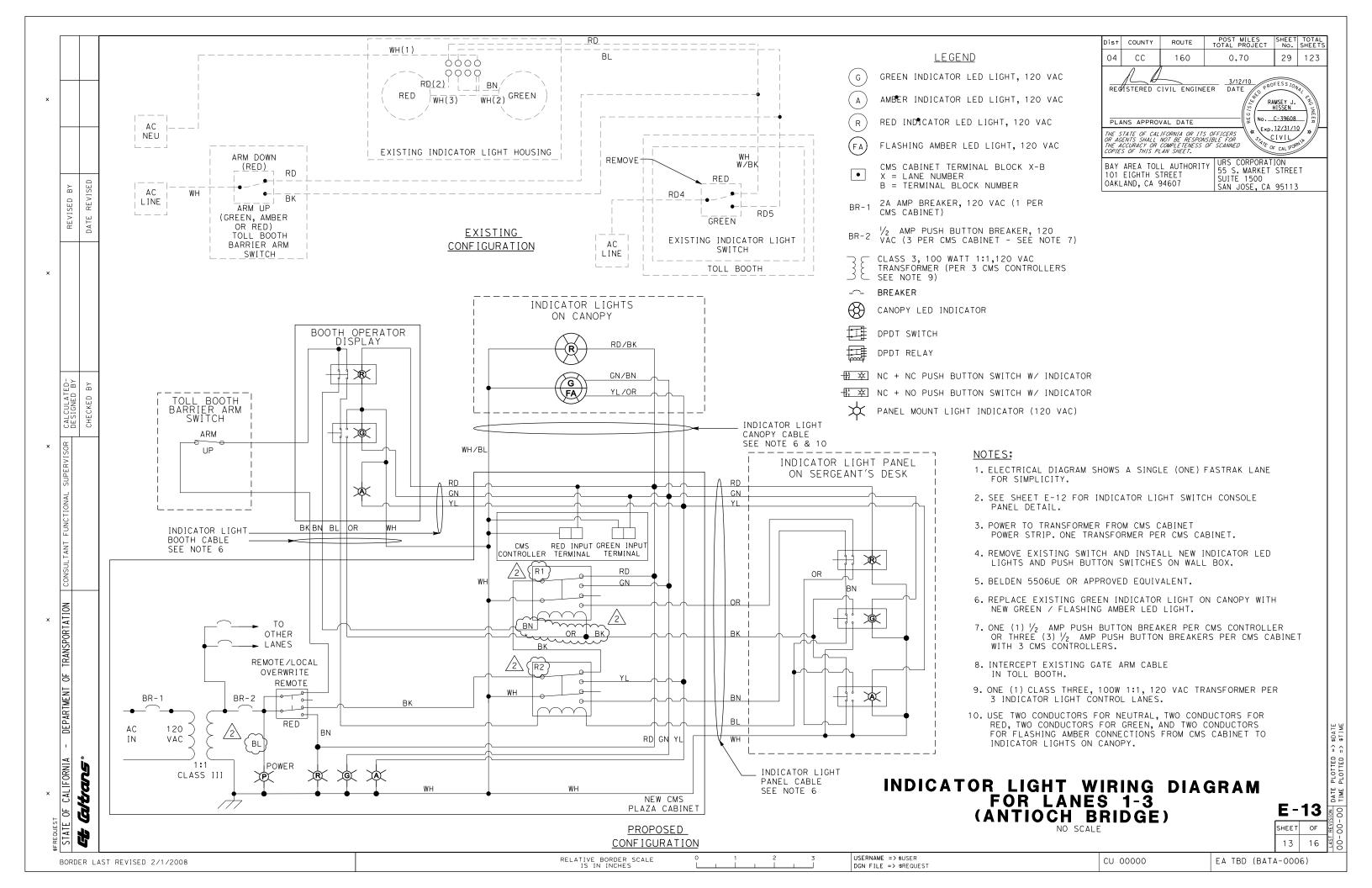
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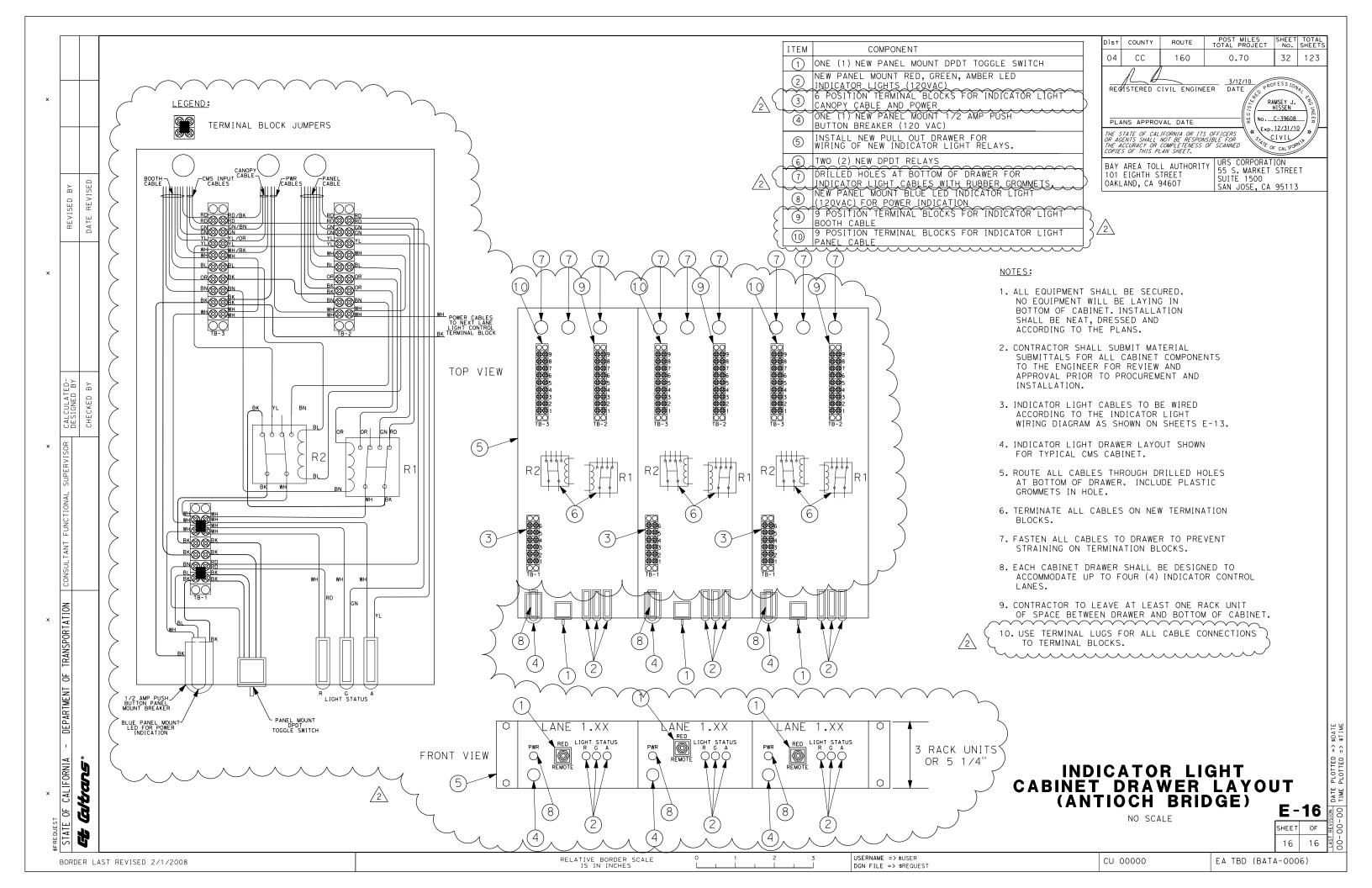
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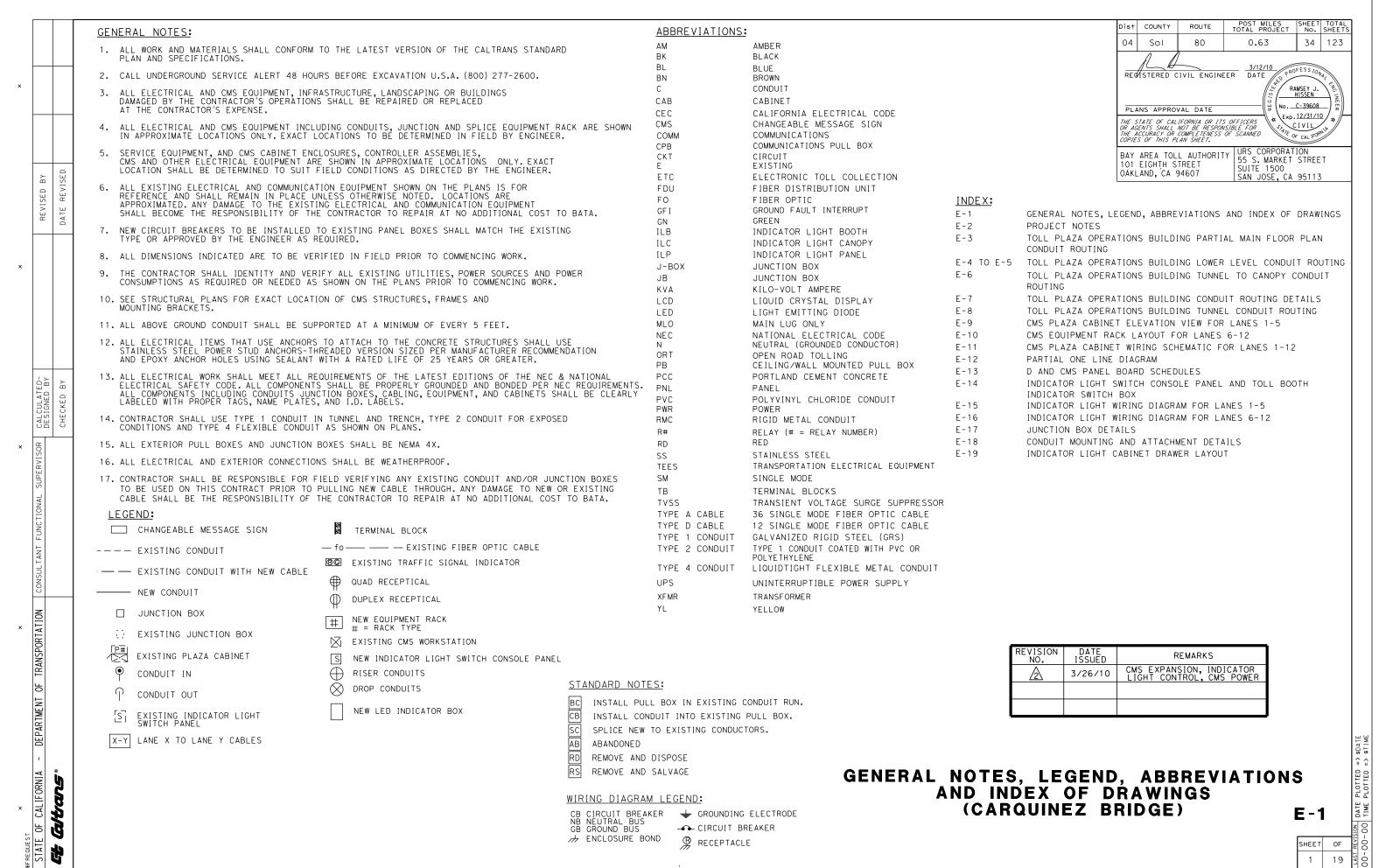
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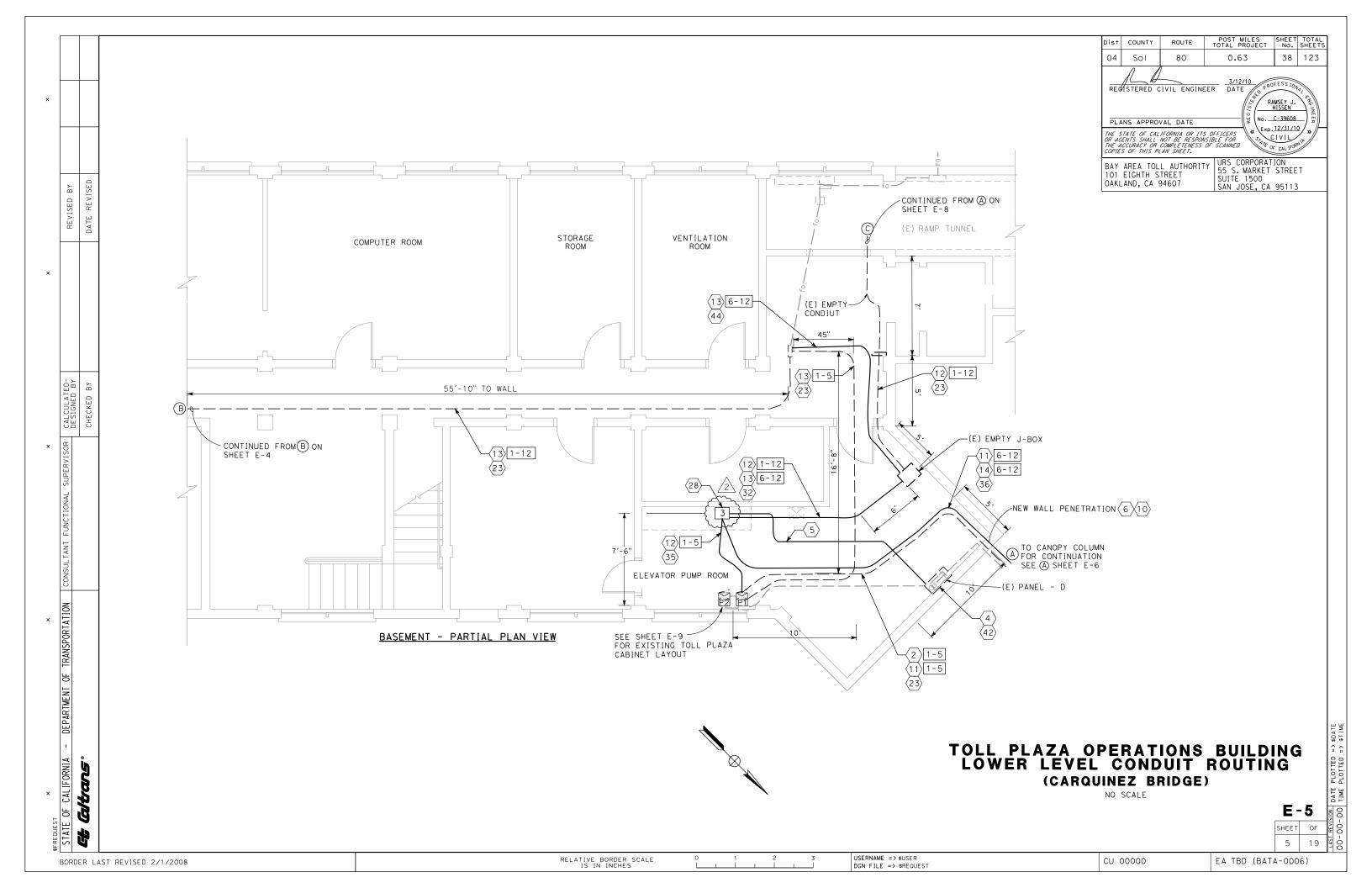
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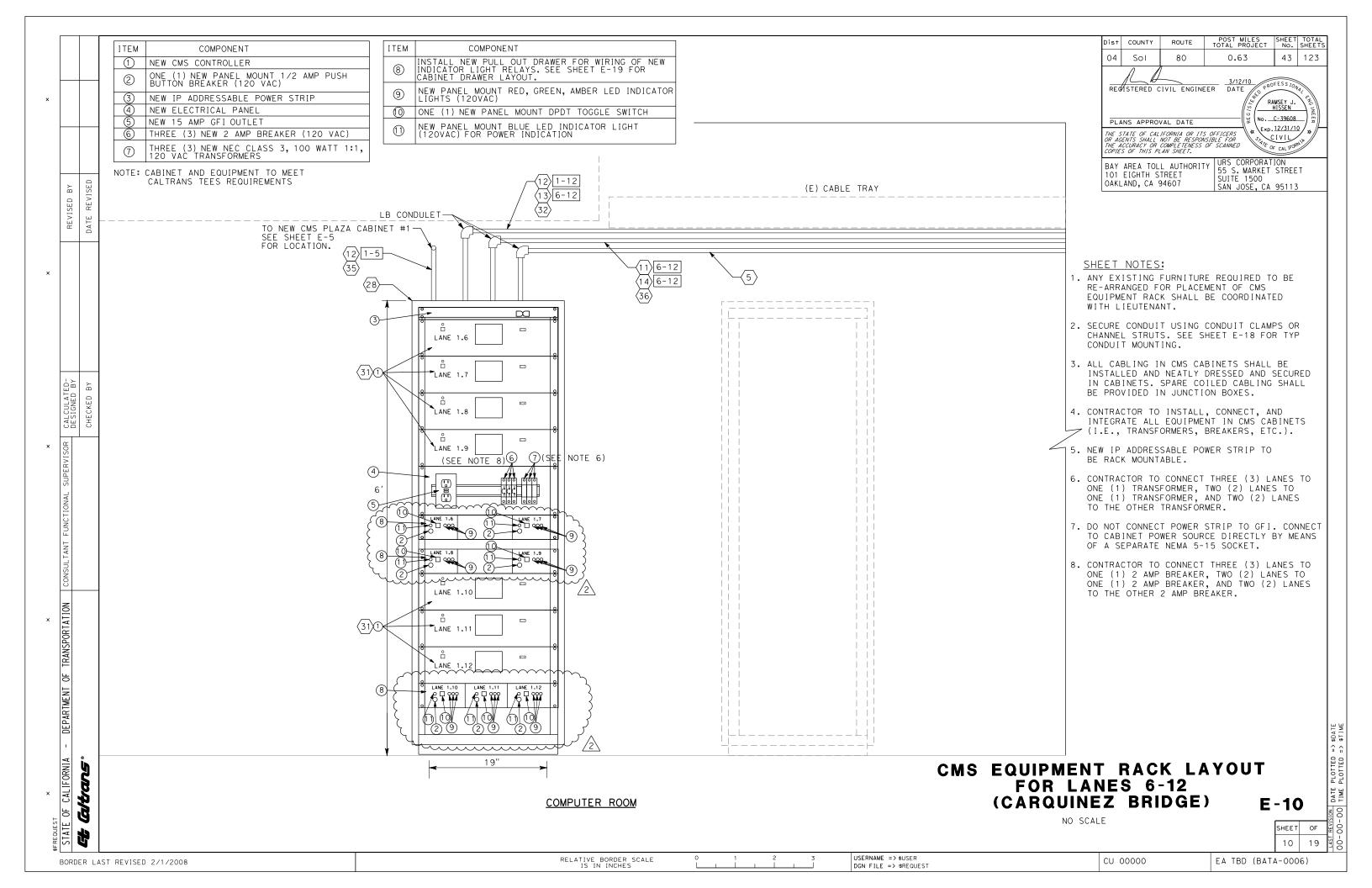
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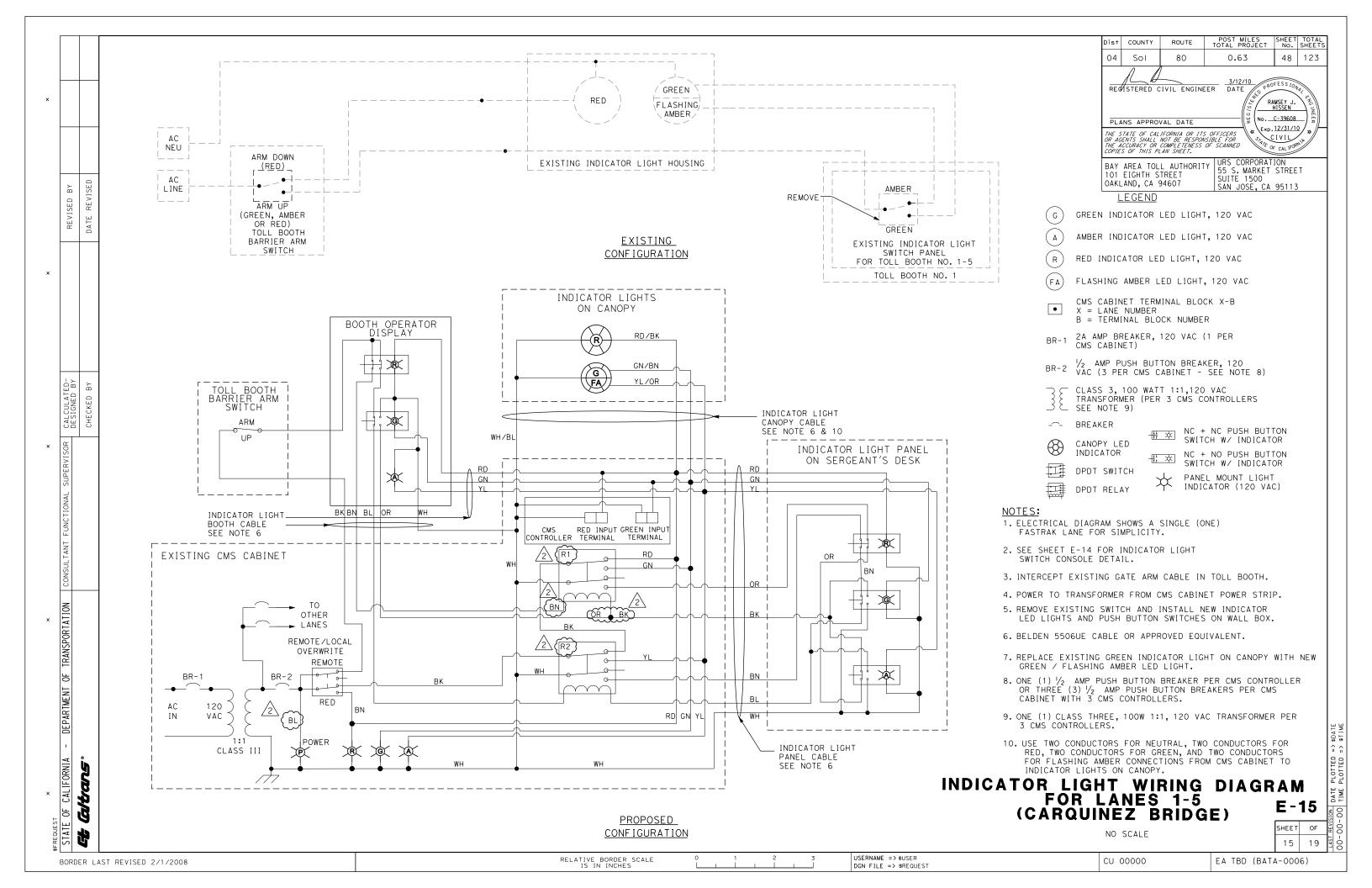
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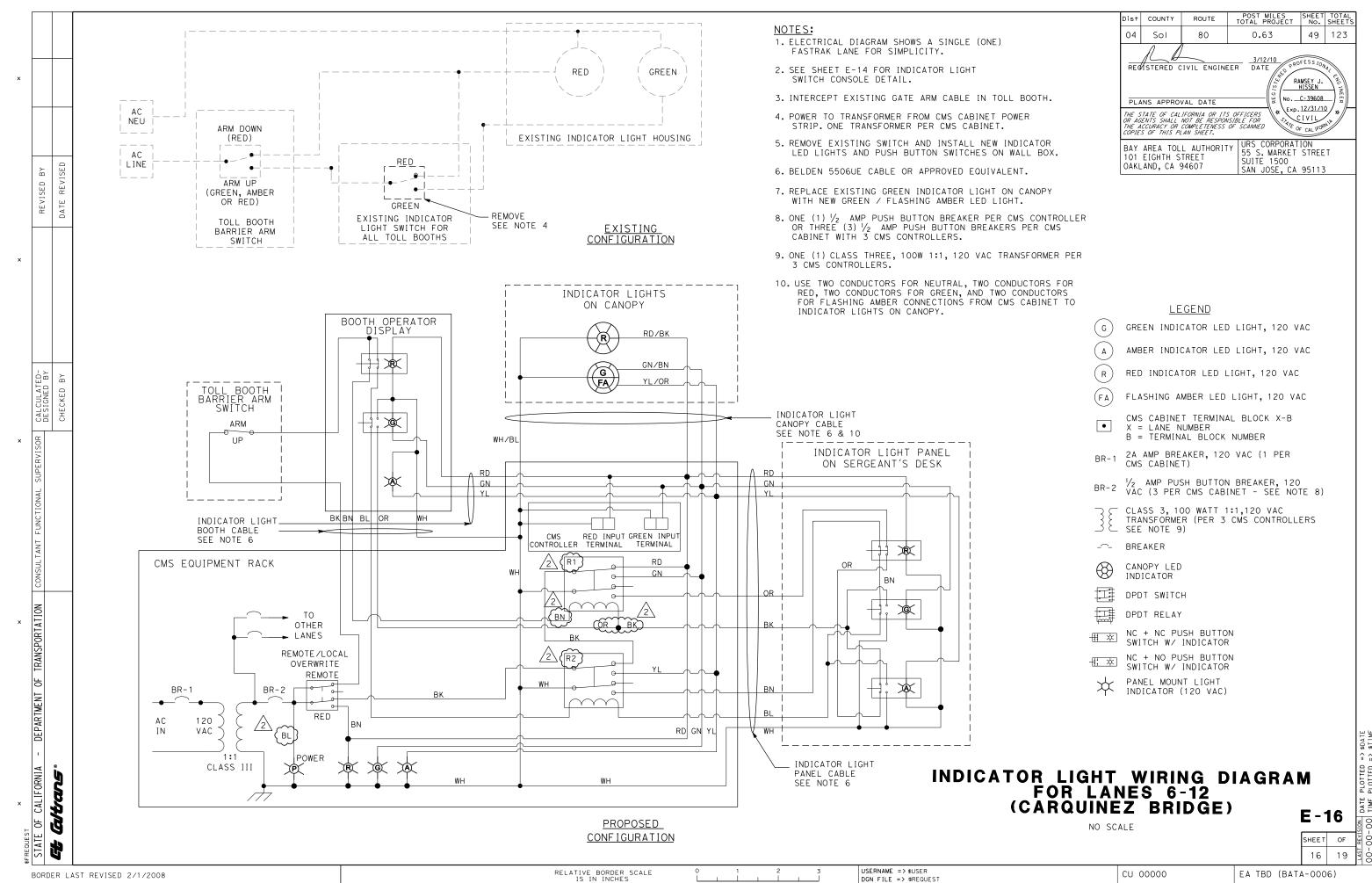
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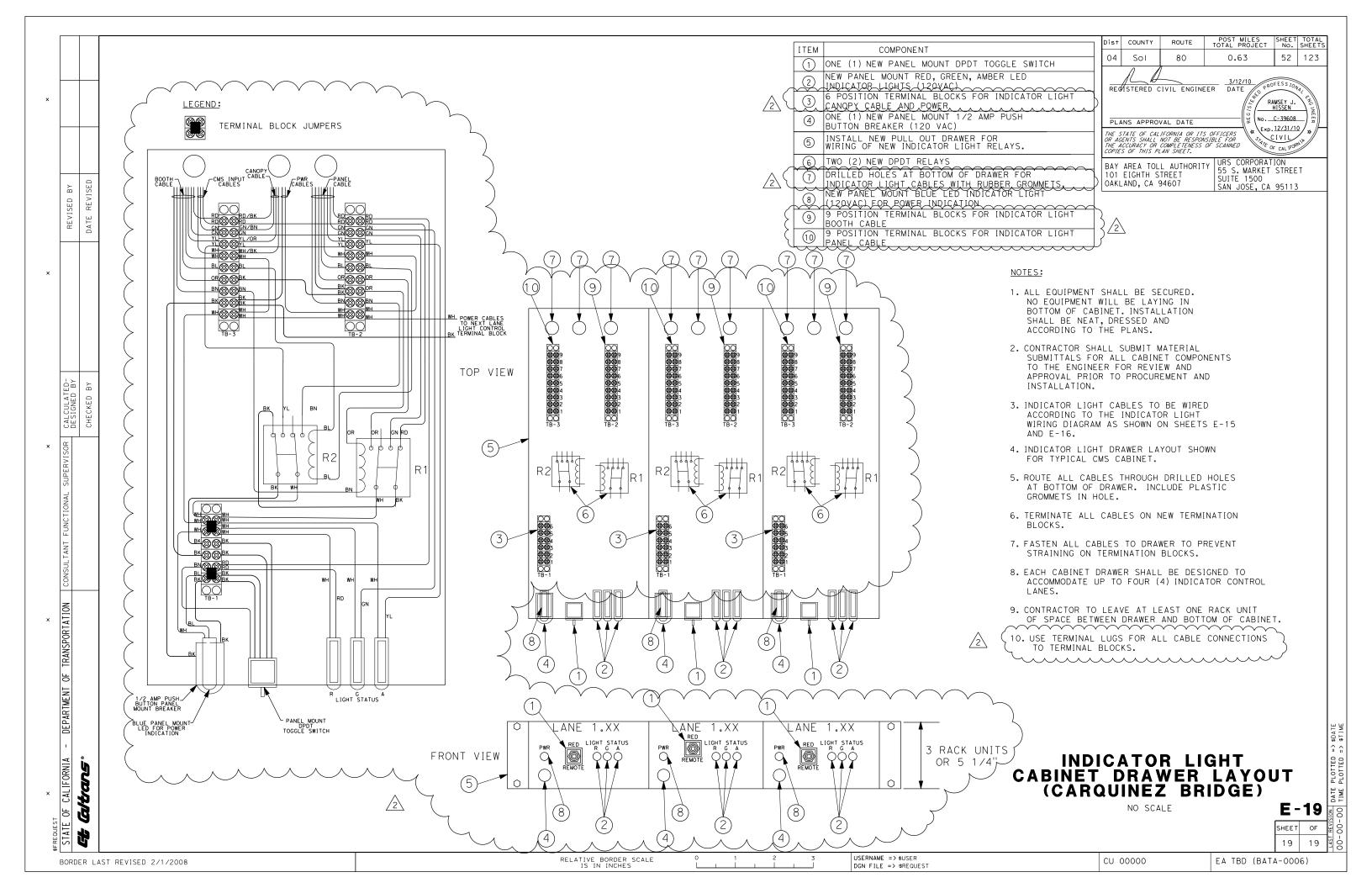






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x REVISED BY DATE REVISED	PLAN AND SPECIFICATIONS. 2. CALL UNDERGROUND SERVICE ALERT 48 HOL 3. ALL ELECTRICAL AND CMS EQUIPMENT, INFEDAMAGED BY THE CONTRACTOR'S OPERATION AT THE CONTRACTOR'S EXPENSE. 4. ALL ELECTRICAL AND CMS EQUIPMENT INCLIN APPROXIMATE LOCATIONS ONLY. EXACT LOCATIONS ONLY. EXACT LOCATIONS AND OTHER ELECTRICAL EQUIPMENT ARE LOCATION SHALL BE DETERMINED TO SUIT 6. ALL EXISTING ELECTRICAL AND COMMUNICATE REFERENCE AND SHALL REMAIN IN PLACE UNAPPROXIMATED. ANY DAMAGE TO THE EXISTING SHALL BECOME THE RESPONSIBILITY OF THE RESPONSIBILITY AND VER	S SHALL BE REPAIRED OR REPLACED JDING CONDUITS, JUNCTION AND SPLICE EQUIPMENT FOR CATIONS TO BE DETERMINED IN FIELD BY ENGINEER SLOSURES, CONTROLLER ASSEMBLIES, E SHOWN IN APPROXIMATE LOCATIONS ONLY. EXACT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. JION EQUIPMENT SHOWN ON THE PLANS IS FOR NLESS OTHERWISE NOTED. LOCATIONS ARE NG ELECTRICAL AND COMMUNICATION EQUIPMENT E CONTRACTOR TO REPAIR AT NO ADDITIONAL COST TO EXISTING PANEL BOXES SHALL MATCH THE EXIST REQUIRED.	RACK ARE SHOWN R. TO BATA. ING	ABBREVIATIONS AM BK BL C CAB CEC CMS COMM CPB CKT E ETC FDU FO GFI GN ILB ILC ILP J-BOX JB	AMBER BLACK BLUE BROWN CONDUIT CABINET CALIFORNIA ELECTRICAL CODE CHANGEABLE MESSAGE SIGN COMMUNICATIONS COMMUNICATIONS PULL BOX CIRCUIT EXISTING ELECTRONIC TOLL COLLECTION FIBER DISTRIBUTION UNIT FIBER OPTIC GROUND FAULT INTERRUPT GREEN INDICATOR LIGHT BOOTH INDICATOR LIGHT CANOPY INDICATOR LIGHT PANEL JUNCTION BOX JUNCTION BOX KILO-VOLT AMPERE	PLANS APPRO THE STATE OF CAL OR AGENTS SHALL THE ACCURACY OF THIS PE BAY AREA TOL 101 EIGHTH S OAKLAND, CA INDEX: E-1 GENERAL NOTES, LEGEND, ABBREVIAT E-2 PROJECT NOTES E-3 TOLL PLAZA OPERATIONS BUILDING P TUNNEL PLAN CONDUIT ROUTING E-4 TOLL PLAZA OPERATIONS BUILDING S CONDUIT ROUTING E-5 TOLL PLAZA OPERATIONS BUILDING T	LAUTHORITY COMPLETERS OF SCANNED LAUTHORITY 94607 CIVIL URS CORPORATION 55 S. MARKET STREET SUITE 1500 SAN JOSE, CA 95113 CONTROL OF CALL FOR AND CONTROL OF CALL FOR AND STREET SUITE 1500 SAN JOSE, CA 95113 CONTROL OF CALL FOR AND CONTROL OF
CONSULTANT FUNCTIONAL SUPERVISOR CALCULATED- DESIGNED BY CHECKED BY	STAINLESS STEEL POWER STUD ANCHORS-TH AND EPOXY ANCHOR HOLES USING SEALANT 13. ALL ELECTRICAL WORK SHALL MEET ALL RE ELECTRICAL SAFETY CODE. ALL COMPONENTS INCLUDING CONDUITS JUN LABELED WITH PROPER TAGS, NAME PLATES 14. CONTRACTOR SHALL USE TYPE 1 CONDUIT I CONDUITIONS AND TYPE 4 FLEXIBLE CONDUIT 15. ALL EXTERIOR PULL BOXES AND JUNCTION 16. ALL ELECTRICAL AND EXTERIOR CONNECTIO 17. CONTRACTOR SHALL BE RESPONSIBLE FOR FITO BE USED ON THIS CONTRACT PRIOR TO CABLE SHALL BE THE RESPONSIBILITY OF LEGEND: CHANGEABLE MESSAGE SIGN EXISTING CONDUIT EXISTING CONDUIT WITH NEW CABLE	PPORTED AT A MINIMUM OF EVERY 5 FEET. TO ATTACH TO THE CONCRETE STRUCTURES SHALL INTERED TO ATTACH TO THE CONCRETE STRUCTURES SHALL INTERED TO THE LATEST EDITIONS OF THE NECTOR OF THE LATEST EDITIONS OF THE NECTOR BOXES, CABLING, EQUIPMENT, AND CABINETS S, AND I.D. LABELS. N TUNNEL AND TRENCH, TYPE 2 CONDUIT FOR EXPOSE AS SHOWN ON PLANS. BOXES SHALL BE NEMA 4X.	ENDATION & NATIONAL HEC REQUIREMENTS. HALL BE CLEARLY ED NCTION BOXES OR EXISTING	LCD LED MLO NEC N ORT PB PCC PNL PVC PWR RMC R# RD SS TEES SM TB TVSS TYPE A CABLE TYPE D CABLE TYPE D CABLE TYPE 1 CONDUIT TYPE 4 CONDUIT	LIQUID CRYSTAL DISPLAY LIGHT EMITTING DIODE MAIN LUG ONLY NATIONAL ELECTRICAL CODE NEUTRAL (GROUNDED CONDUCTOR) OPEN ROAD TOLLING CEILING/WALL MOUNTED PULL BOX PORTLAND CEMENT CONCRETE PANEL POLYVINYL CHLORIDE CONDUIT POWER RIGID METAL CONDUIT RELAY (# = RELAY NUMBER) RED STAINLESS STEEL TRANSPORTATION ELECTRICAL EQUIPMENT SINGLE MODE TERMINAL BLOCKS TRANSIENT VOLTAGE SURGE SUPPRESSOR 36 SINGLE MODE FIBER OPTIC CABLE 12 SINGLE MODE FIBER OPTIC CABLE 6ALVANIZED RIGID STEEL (GRS) TYPE 1 CONDUIT COATED WITH PVC OR POLYETHYLENE LIQUIDTIGHT FLEXIBLE METAL CONDUIT UNINTERRUPTIBLE POWER SUPPLY	E-6 LANES 1-7 CMS CABINETS ELEVATION E-7 CMS PLAZA CABINET WIRING SCHEMAT E-8 PARTIAL ONE LINE DIAGRAM E-9 TB PANELBOARD SCHEDULE E-10 INDICATOR LIGHT SWITCH CONSOLE P SWITCH BOX. E-11 INDICATOR LIGHT WIRING DIAGRAM FOR E-12 INDICATOR LIGHT WIRING DIAGRAM FOR E-13 JUNCTION BOX DETAILS E-14 CONDUIT MOUNTING AND ATTACHMENT E-15 INDICATOR LIGHT CABINET DRAWER L	TIC FOR LANES 1-7 PANEL AND TOLL BOOTH INDICATOR OR LANES 1-3 OR LANES 4-7 DETAILS
* STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION GET CONTENS * * * * * * * * * * * * *	DEW CONDUIT JUNCTION BOX EXISTING JUNCTION BOX P# NEW CMS PLAZA CABINET EXISTING CMS PLAZA CABINET CONDUIT IN CONDUIT OUT LANE X TO LANE Y CABLES	S EXISTING INDICATOR LIGHT SWITCH	STANDARD NOTES BC INSTALL PULL CB INSTALL CONDU	BOX IN EXISTING CODIT INTO EXISTING PODE EXISTING CONDUCTOR SPOSE ALVAGE LEGEND: R GROUNDING E CIRCUIT BRE	GENERAL NO ANI	REVISION DATE ISSUED 3/26/10 CMS EXPA LIGHT CO DINDEX OF DRAWING DUMBARTON BRIDGE)	REMARKS ANSION, INDICATOR ONTROL, CMS POWER EVIATIONS S E-1 SHEET OF 1 15

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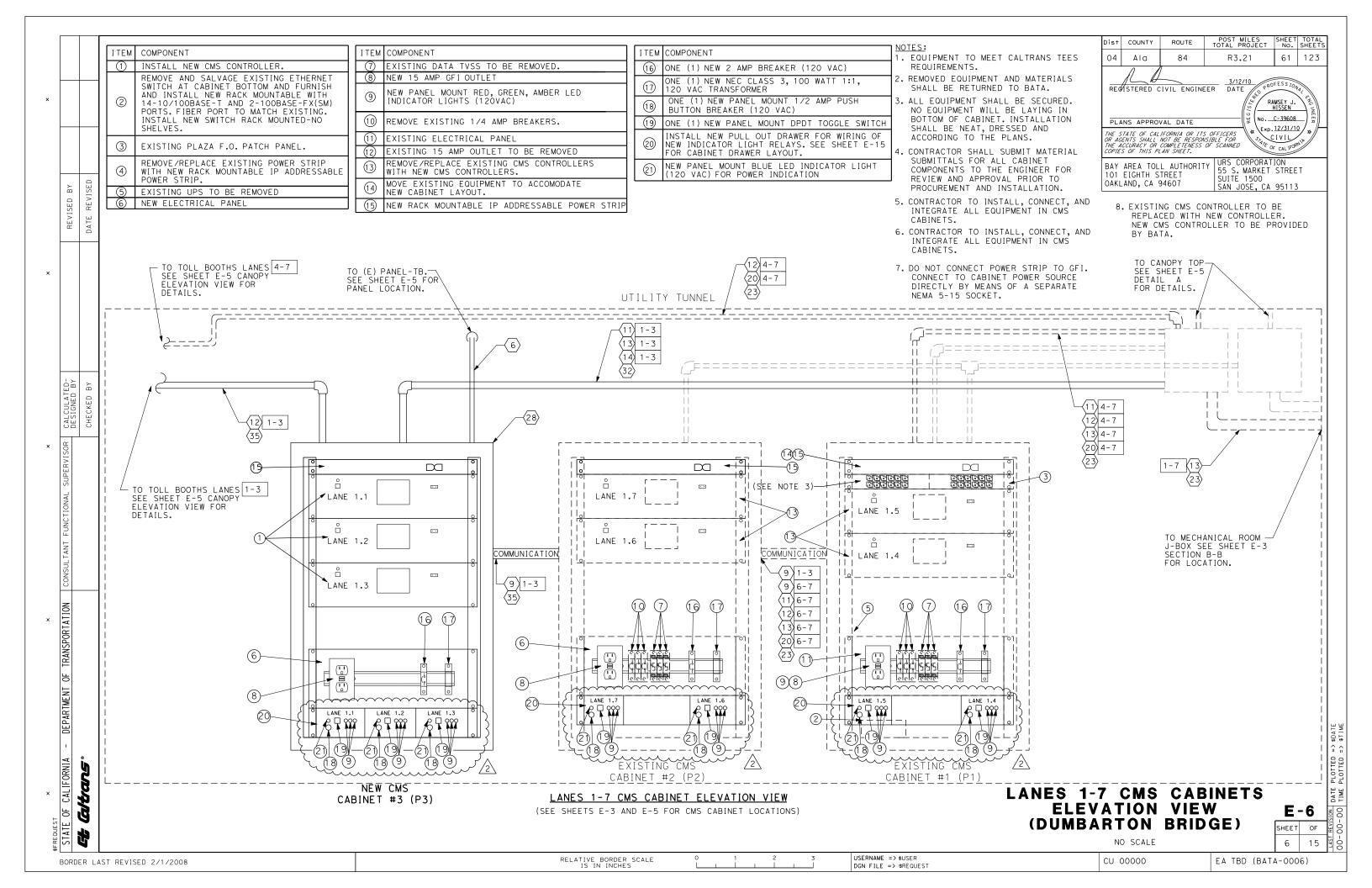
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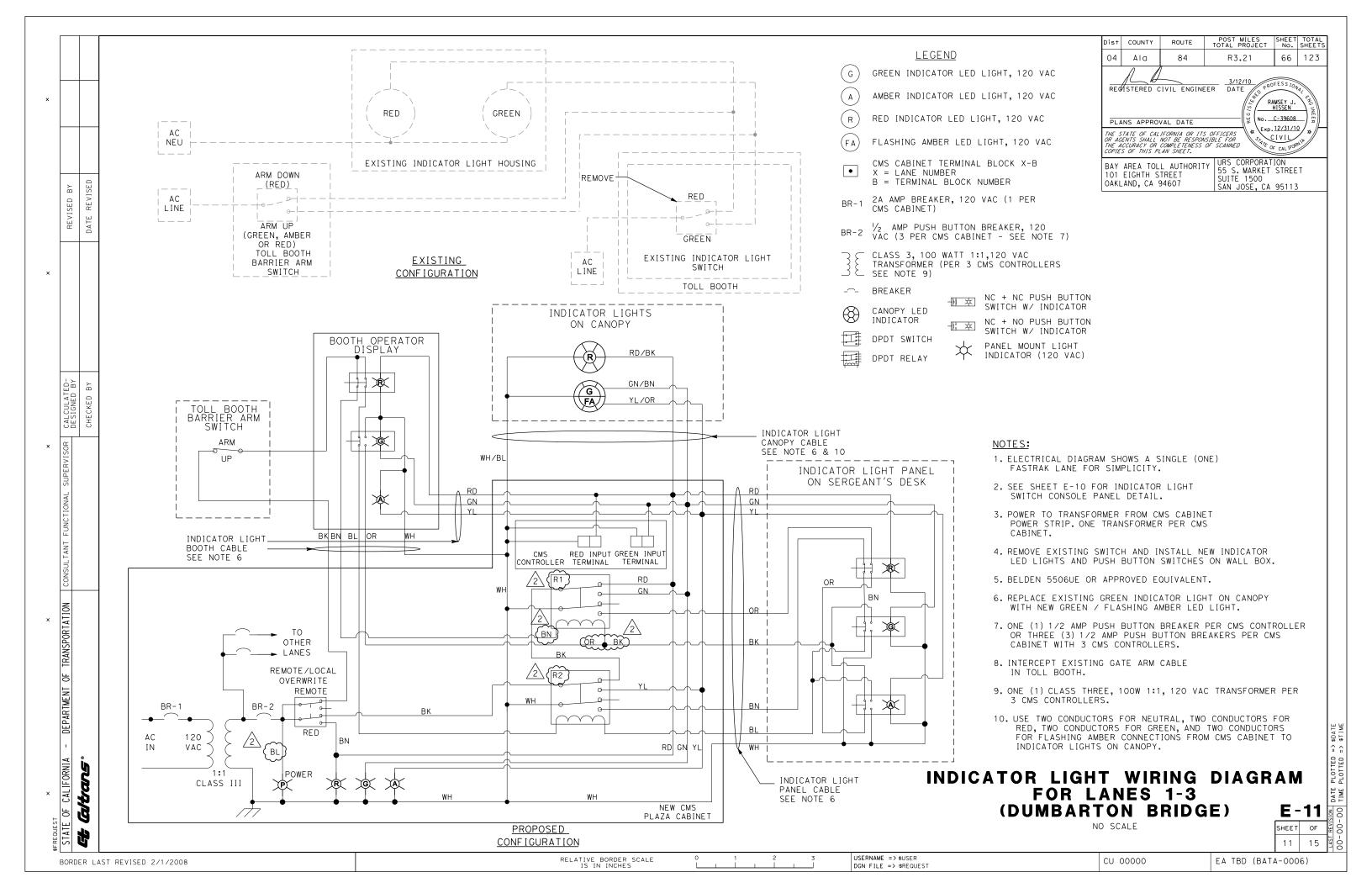
		Dist COUNTY ROUTE POST MILES SHEET TOTAL PROJECT No. SHEETS O4 AIG 84 R3.21 57 123 REGISTERED CIVIL ENGINEER AND ATE PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET. BAY AREA TOLL AUTHORITY URS CORPORATION 55 S. MARKET STREET
MENT OF TRANSPORTATION CONSULTANT FUNCTIONAL SUPERVISOR CALCULATED-DESIGNED BY REVISED BY CHECKED BY DATE REVISED	PROJECT NOTES: (1) INSTALL NEW TYPE D CABLE IN EXISTING CONDUIT. (2) INSTALL NEW TYPE D CABLE. (3) INSTALL NEW TYPE D CABLE. (3) INSTALL NEW TYPE D CABLE. (3) INSTALL NEW THREE (3) 15A-1P CIRCUIT BREAKER IN (E) SPACES 14, 16 AND 18 (120V CMS SIGNS). (4) INSTALL NEW ONE (1) 15A-1P CIRCUIT BREAKER FOR NEW CMS CABINET #3 IN E) SPACE 20. (5) INSTALL NEW TYPE 1 (3/" C) CONDUIT WITH (2 #12 AND 1 #126) (120 V, CMS CABINET #3) AND PROVIDE CONDUIT SUPPORT. (7) INSTALL NEW TYPE 1 (1" C) CONDUIT, WITH (2 #12 AND 1 #126) (120 V, CMS CABINET #3) AND PROVIDE CONDUIT SUPPORT. (8) INSTALL TYPE 3 JUNCTION BOX BELOW CANOPY AS SPECIFIED IN CONTRACT DOCUMENTS. (9) INSTALL NEW CAT-56 CABLE. (10) ALL WALL, CELLING, AND FLOOR PENETRATIONS SHALL BE CORE-DRILLED AS DIRECTED AND APPROVED BY CALTRANS SUFFICIENTLY LARGE TO ACCOMMODATE CONDUIT PLUS FLUSH MOUNTED END BELL, ALL CORE-DRILLS SHALL BE WADE WATER-TIGHT, SEALED AROUND CONDUIT PER CALTRANS REQUIREMENTS WITH TAST-SETTING EPOXY RESIN THROUGHOUT THE DETTH OF HOLE. (1) INSTALL NEW INDICATOR LIGHT CANOPY CABLE. (2) INSTALL NEW INDICATOR LIGHT ENDOTH CABLE. (3) INSTALL NEW INDICATOR LIGHT ENDOTH CABLE. (4) INSTALL NEW CMS COMM CABLE. (5) EXISTING TYPE 3 JUNCTION BOX BELOW CANOPY. (6) FINAL LOCATION OF CMS WORKSTATION. (7) INSTALL NEW TYPE 4 (11½" C) CONDUIT. (8) INSTALL NEW TYPE 4 (1½" C) CONDUIT. (8) INSTALL NEW CMS PANEL AS SPECIFIED IN CONTRACT DOCUMENTS. (2) INSTALL NEW CMS PANEL AS SPECIFIED IN CONTRACT DOCUMENTS. (2) INSTALL NEW CMS PENAL AS SPECIFIED IN CONTRACT DOCUMENTS. (3) INSTALL NEW CMS PENAL AS SPECIFIED IN CONTRACT DOCUMENTS. (4) MOSPLY EXISTING GEREN INDICATOR LIGHT AND REPLACE WITH GREEN/FLASHING AMBER LED INDICATOR BULB. REPLACE EXISTING RED INDICATOR LIGHT WITH RED LED INDICATOR BULB TREPLACE EXISTING RED INDICATOR HORD RED INDICATOR BULB. REPLACE EXISTING RED INDICATOR HORD RED LED INDICATOR BULB TO DEATH AS A SPARE.	(2) INSTALL NEW TYPE 2 (1 1/2" C) CONDUIT WITH 6 #12 & 3 #120 (120V, CMS SIGN) (2) ROUTE NEW CAS COME CABLE THROUGH EXISTING JUNCTION BOX. (3) INSTALL NEW CMS PLAZA CABINET FOR LAMES 1-3 &S SPECIFIED IN CONTRACT DOCUMENTS. (4) INSTALL NEW CMS COME CABLE THROUGH EXISTING JUNCTION BOX. (5) INSTALL NEW CMS COME CABLET SWITCH IN TOLL BOOTH. (1) INSTALL NEW CMS CONTROLLERS, ROUTE CATES FACH CABLES FROM EACH CMS CONTROLLER TO NEW ETHERNET SWITCH IN RESISTING CABSONET. (2) INSTALL NEW TYPE 1 (2" C) CONDUIT. (3) INSTALL NEW TYPE 2 (2" C) CONDUIT. (4) INSTALL NEW TYPE 1 (1/2" C) CONDUIT. (5) INSTALL NEW TYPE 1 (1/2" C) CONDUIT. (6) INSTALL NEW TYPE 1 (1/2" C) CONDUIT. (7) INSTALL NEW TYPE 1 (1/2" C) CONDUIT. (8) INSTALL NEW TYPE 4 (2" C) CONDUIT. (9) INSTALL NEW TYPE 4 (2" C) CONDUIT. (10) INSTALL NEW TYPE 4 (2" C) CONDUIT. (11) INSTALL NEW TYPE 4 (2" C) CONDUIT. (12) INSTALL NEW TYPE 4 (2" C) CONDUIT. (13) INSTALL NEW TYPE 4 (2" C) CONDUIT. (14) INSTALL NEW TYPE 4 (2" C) CONDUIT. (15) INSTALL NEW TYPE 4 (2" C) CONDUIT. (16) INSTALL NEW TYPE 4 (1" C) CONDUIT. (17) INSTALL NEW TYPE 4 (1" C) CONDUIT. (18) INSTALL NEW TYPE 4 (1" C) CONDUIT. (19) INSTALL NEW TYPE 4 (1" C) CONDUIT. (19) INSTALL NEW TYPE 4 (1" C) CONDUIT. (19) INSTALL NEW TYPE 1 (1 1/2" C) CONDUIT. (10) INSTALL NEW TYPE 1 (1 1/2" C) CONDUIT. (11) INSTALL NEW TYPE 1 (1 1/2" C) CONDUIT. (12) INSTALL NEW TYPE 1 (1 1/2" C) CONDUIT WITH 6 #12 & 3 #126 (120V, CMS SIGN) TO (E) PANEL-TB. (19) CARE DRILL (E) CONCRETE SLAB. (10) INSTALL NEW TYPE 1 (1 1/2" C) CONDUIT WITH NEW RED LED INDICATOR BULB, IF EXISTING. (17) REPLACE EXISTING RED INDICATOR LIGHT WITH NEW RED LED INDICATOR BULB, IF EXISTING. (18) INSTALL TYPE 2 (1 1/2" C) CONDUIT WITH NEW RED LED INDICATOR BULB, IF EXISTING.
E OF CALIFORNIA - DEPARTMENT Coltans		PROJECT NOTES (DUMBARTON BRIDGE) E-2

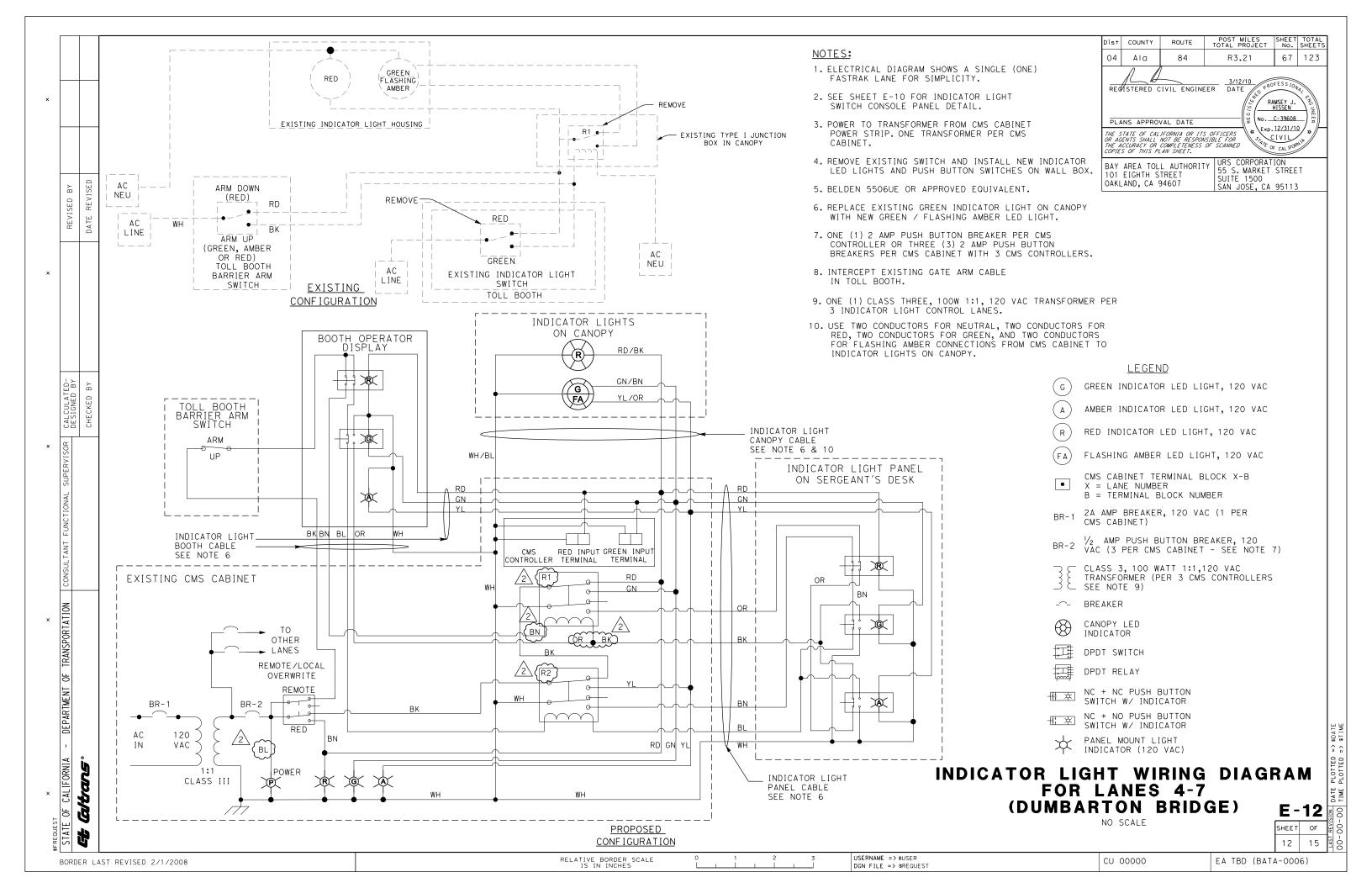
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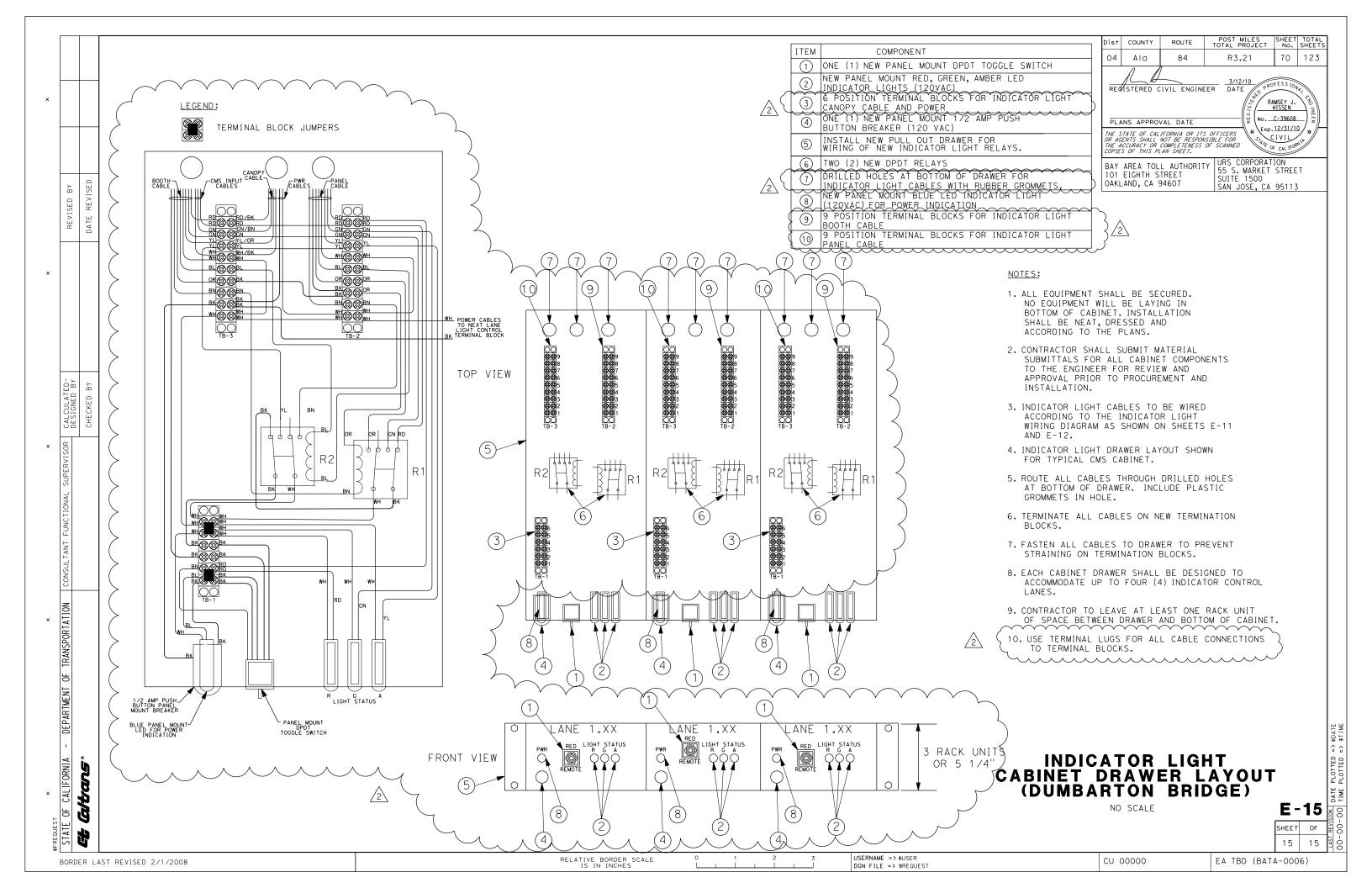
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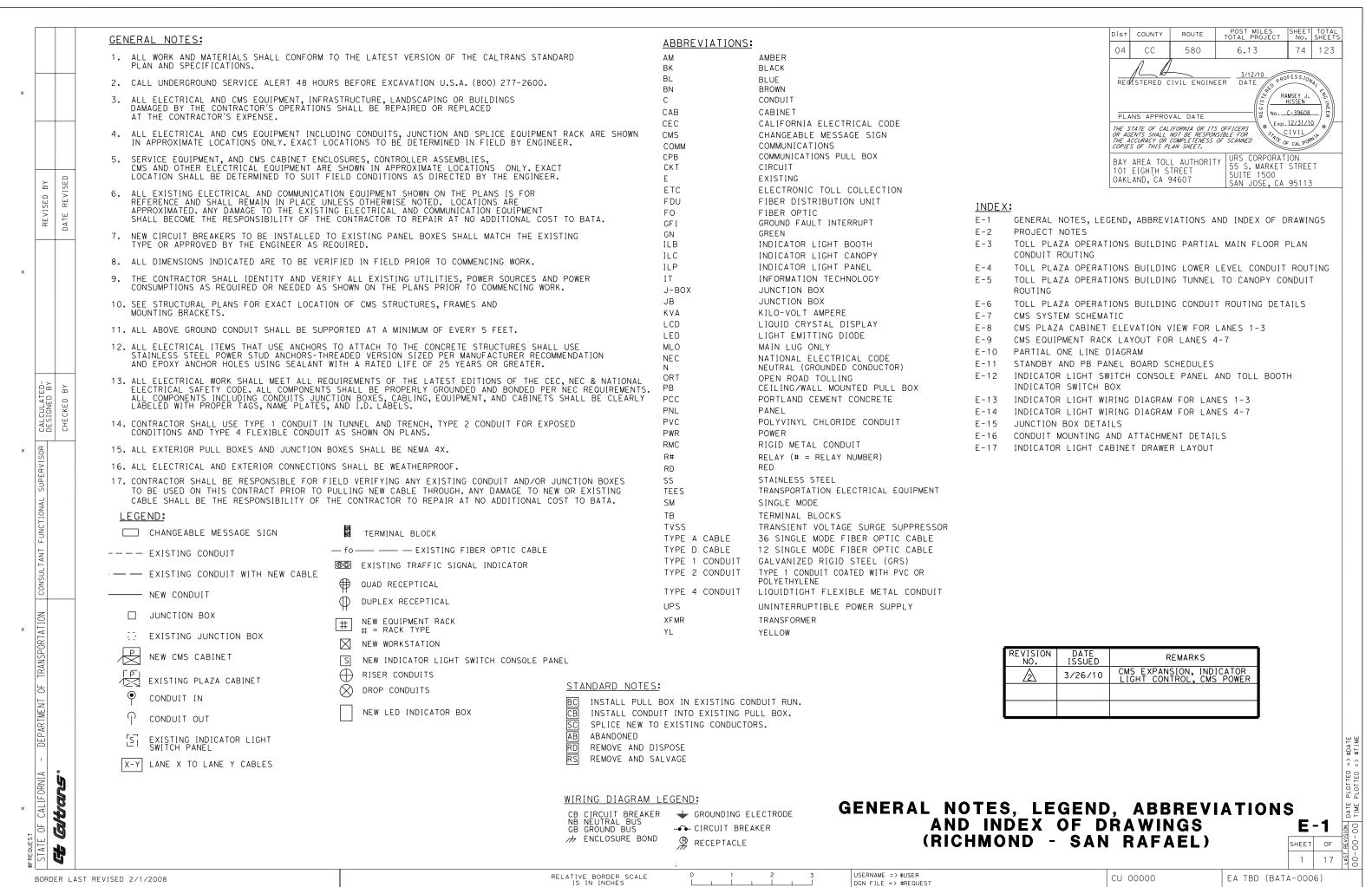
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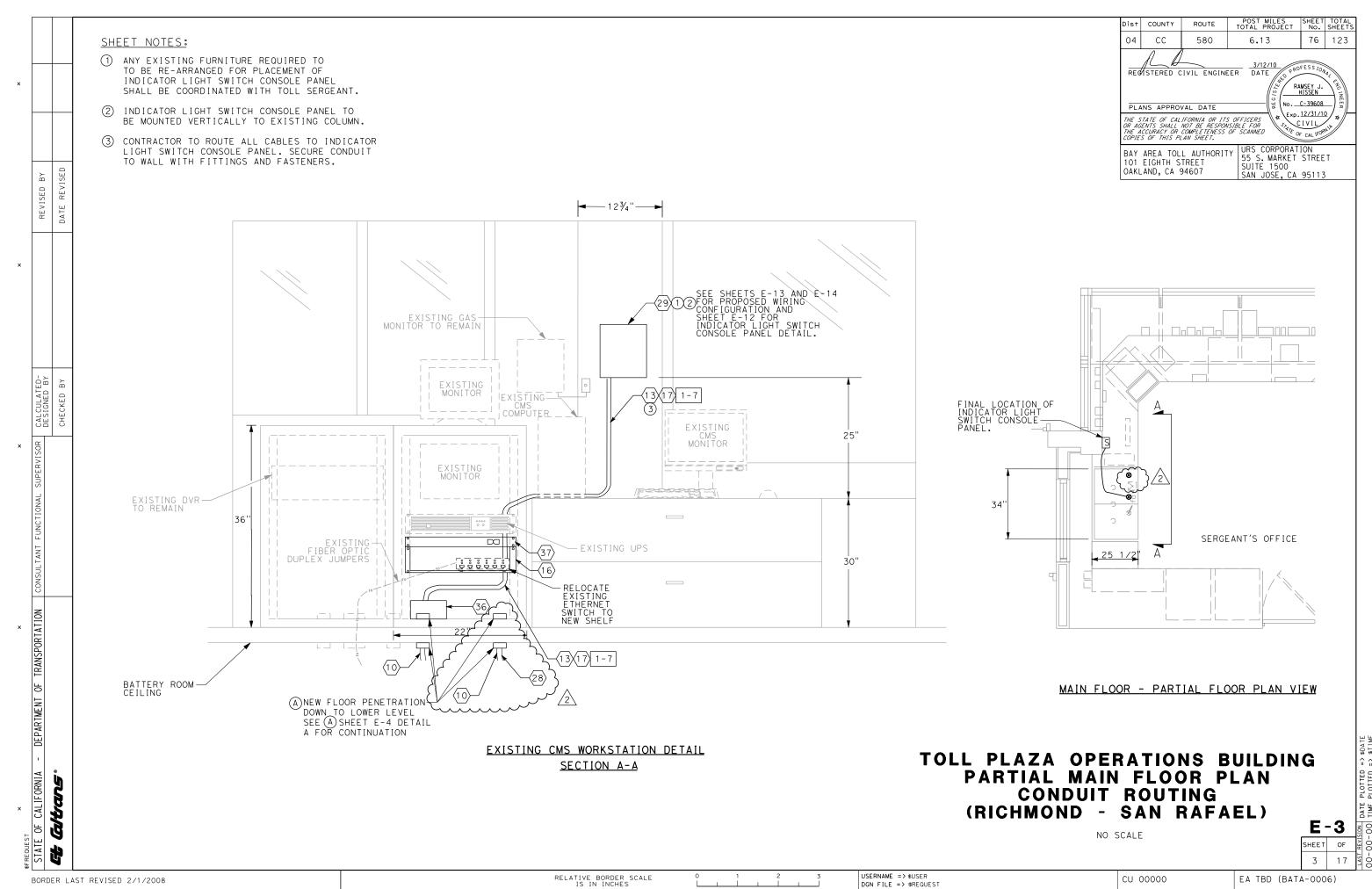
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	PLANS APPROVAL DATE Continue of the state
	THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT HE RESPONSIBLE FOR
	COPIES OF THIS PLAN SHEET.
PROJECT NOTES:	BAY AREA TOLL AUTHORITY 101 EIGHTH STREET OAKLAND, CA 94607 SUITE 1500 SAN JOSE, CA 95113
	(26) REMOVE AND DISPOSE OF AS DIRECTED BY THE ENGINEER.
불 발 (2) INSTALL NEW CAT-5e CABLE.	27) ROUTE NEW CMS COMM CABLE THROUGH EXISTING JUNCTION BOX.
(3) INSTALL NEW TYPE 1 (3/4") CONDUIT WITH 2 #12 AND 1 (#12G)(120 V, CMS CABI ROUTE CONDUIT BELOW (E) CABLE TRAY AND PROVIDE CONDUIT SUPPORT.	$^{\vee}$
2\{\daggeq \text{NOT USED}}	30) REMOVE EXISTING INDICATOR LIGHT SWITCH PANEL IN TOLL BOOTH.
5 INSTALL NEW FOUR(4)15A-IP CIRCUIT BREAKERS (120 V, CMS SIGN) IN (E) SPACES 8,10,11 AND 12).	INSTALL NEW CMS CONTROLLERS, ROUTE CAT-5E PATCH CABLES FROM EACH CMS CONTROLLER TO NEW ETHERNET SWITCH IN EXISTING CMS CABINET.
6 INSTALL TYPE 1 (1 1/2") CONDUIT WITH 8 #12 AND 4 #12G (120 V, CMS SIGN	NS). (32) INSTALL NEW TYPE 1 (2" C) CONDUIT.
7 INSTALL TYPE 4 (1 1/2") CONDUIT WITH 8 #12 AND 4 #12G (120 V, CMS SIGNS ROUTE CONDUIT IN (E) CABLE TRAY AND (E) CEILING TO (E) EMERGENCY PANEL.	S). \[\sqrt{33}\rightarrow\text{Install new type 2 (2" C) conduit.} \]
8 ROUTE CONDUIT WITH 8 #12 AND 4 #12G TO (E) CANOPY (CORE DRILL IS REQUI	
SEAL AROUND CONDUIT PENETRATION WITH FAST-SETTING EPOXY RESIN THROUGH	THE DEPTH OF HOLE. (35) INSTALL NEW TYPE 1 (11/2" C) CONDUIT.
(120 V, CMS SIGNS) NSTALL TYPE 1 (1 1/2") CONDUIT WITH 8 #12 AND 4 #12G (120 V, CMS SIGNS) ROUTE ABOVE CEILING TILE.	36) INSTALL NEW 4X4X4 JUNCTION BOX
요	
정신 등 MOUNTED END BELL. ALL CORE-DRILLS SHALL BE MADE WATER-TIGHT, SEALED AN CONDUIT PER CALTRANS REQUIREMENTS WITH FAST-SETTING EPOXY RESIN THROU	ROUND (38) INSTALL NEW TYPE 4 (2 C) CONDUIT
	INSTALL AND TERMINATE INDICATOR LIGHT CABLES TO NEW TERMINAL BLOCKS AND WIRE TO SWITCH PANEL AS SHOWN IN PLANS AND APPROVED BY THE ENGINEER.
install New Indicator Light Canopy Cable.	40 INSTALL L TYPE FITTING.
(12) INSTALL NEW INDICATOR LIGHT BOOTH CABLE.	(41) INSTALL NEW TOLL BOOTH LED PUSH BUTTON INDICATOR BOX.
(13) INSTALL NEW INDICATOR LIGHT CONSOLE CABLE.	$\langle 42 \rangle$ INSTALL TYPE 2 (1½" C) CONDUIT WITH 8 #12 & 4 #12G (120V, CMS POWER).
(14) INSTALL NEW CMS COMM CABLE.	(43) INSTALL TYPE 7 HINGTION BOY AS SPECIFIED IN CONTRACT DOCUMENTS
(15) (E) $1\frac{1}{4}$ " C - 6 #12 & 4 #12G (120V, (E) CMS SIGNS)	(44) INSTALL TYPE 3 JUNCTION BOX AS SPECIFIED IN CONTRACT DOCUMENTS. (45) INSTALL NEW CMS PANEL AS SPECIFIED IN CONTRACT DOCUMENTS.
$\langle 16 \rangle$ INSTALL NEW EQUIPMENT RACK MOUNTABLE SHELF. $\langle 17 \rangle$ INSTALL NEW TYPE 4 (1 $\frac{1}{2}$ " C) CONDUIT.	(46) INSTALL NEW 15A-1P CIRCUIT BREAKER (120V, CMS CONTROLLER) IN SPACE #42 TO MATCH (E).
(18) CONTRACTOR TO RE-SEAL CONDUIT PENETRATION UP TO CANOPY.	(47) PROVIDE NEW REVISED (TYPED WRITTEN) PANEL SCHEDULE.
(19) (E) FDU TO REMAIN.	2 (48) RE-FEED (E) CMS CABINET (120V) FROM (E) PANEL-STANDBY TO (E) PANEL-PB.
20) REMOVE AND DISPOSE OF EXISTING INDICATOR LIGHT CONTROL CABLE.	49) DISCONNECT AND SCRAP (E) BRANCH CIRCUIT FEEDER #14 (120V, CMS CONTROLLER).
	(50) INSTALL NEW TYPE 1 (3/4" C) CONDUIT WITH (2 #12 & 1 #12G) /2
=	$/_2\setminus \{ \langle 51 \rangle \}$ REMOVE AND SCRAP (E) 2 #14 & 1 #14G TO (E) STANDBY PANEL (120V, CMS CABINET) $\{ \langle 1 \rangle \}$
(21) REMOVE AND DISPOSE OF EXISTING SPARE GREEN, BLACK, & WHITE CABLES. (22) INSTALL NEW 8 #12 & 8 #12G (120V, CMS SIGNS). (23) ROUTE NEW CABLES THROUGH EXISTING CONDUIT. (24) MODIFY EXISTING GREEN INDICATOR LIGHT AND REPLACE WITH GREEN/FLASHING	52 REPLACE EXISTING RED INDICATOR LIGHT WITH NEW RED LED INDICATOR BULB. IF EXISTING RED INDICATOR LIGHT IS LED, FURNISH NEW RED LED INDICATOR BULB TO BATA AS A SPARE.
MODIFY EXISTING GREEN INDICATOR LIGHT AND REPLACE WITH GREEN/FLASHING LED INDICATOR BULB. REPLACE EXISTING RED INDICATOR LIGHT WITH RED LED BULB. IF EXISTING RED INDICATOR LIGHT IS LED, FURNISH NEW RED LED INDICATOR LIGHT INDICATOR LIGHT IS LED, FURNISH NEW RED LED INDICATOR LIGHT IS LED, FURNISH NEW RED LED INDICATOR LIGHT LIGHT INDICATOR LIGHT INDICATOR LIGHT INDICATOR LIGHT INDICATOR	
O TO BATA AS A SPARE.	ATOR BULB TO (E) 4"X4"X4" WIRE GUTTER. (CKT 6 & 12) TO (E) TWO (2) SPARE 20A-1P BREAKERS #6 & #12.
(25) INSTALL NEW TYPE 2 (1 1/2" C) CONDUIT.	(55) ROUTE NEW 3 #12 & 1 #12G (CKT 6 & 12) FROM (E) PANEL-PB TO (E) EQUIPMENT RACK #1 VIA (E) WIRE GUTTER;
(25) INSTALL NEW TYPE 2 (1 1/2" C) CONDUIT.	(56) REPLACE (E) DUPLEX RECEPTACLE WITH NEW QUAD RECEPTACLE. DEVICE COLOR TO MATCH EXISTING.
	(57) INSTALL NEW QUAD RECEPTACLE TO (E) 4"X4" JUNCTION BOX DEVICE COLOR TO MATCH EXISTING.
	PROJECT NOTES
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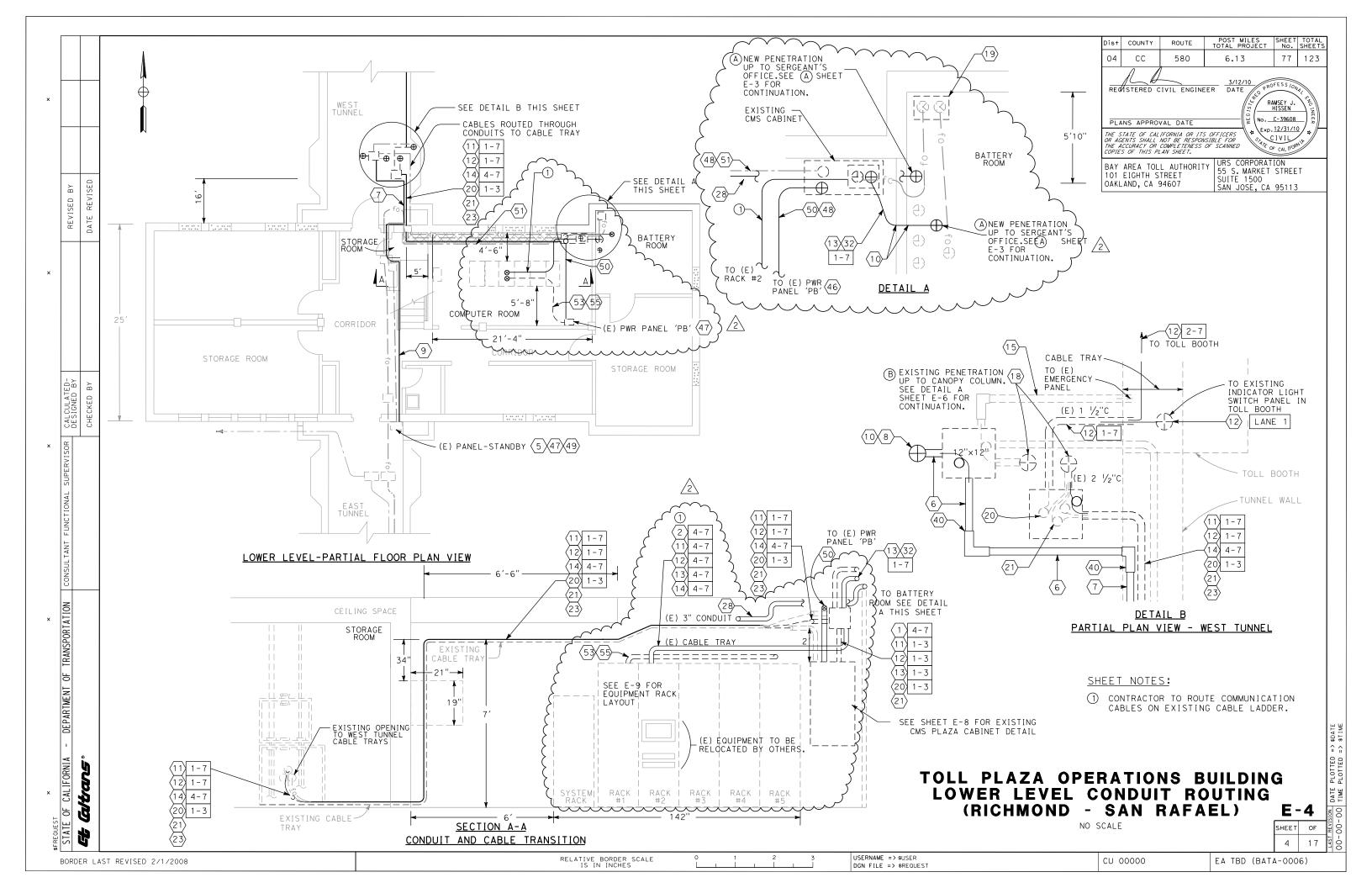
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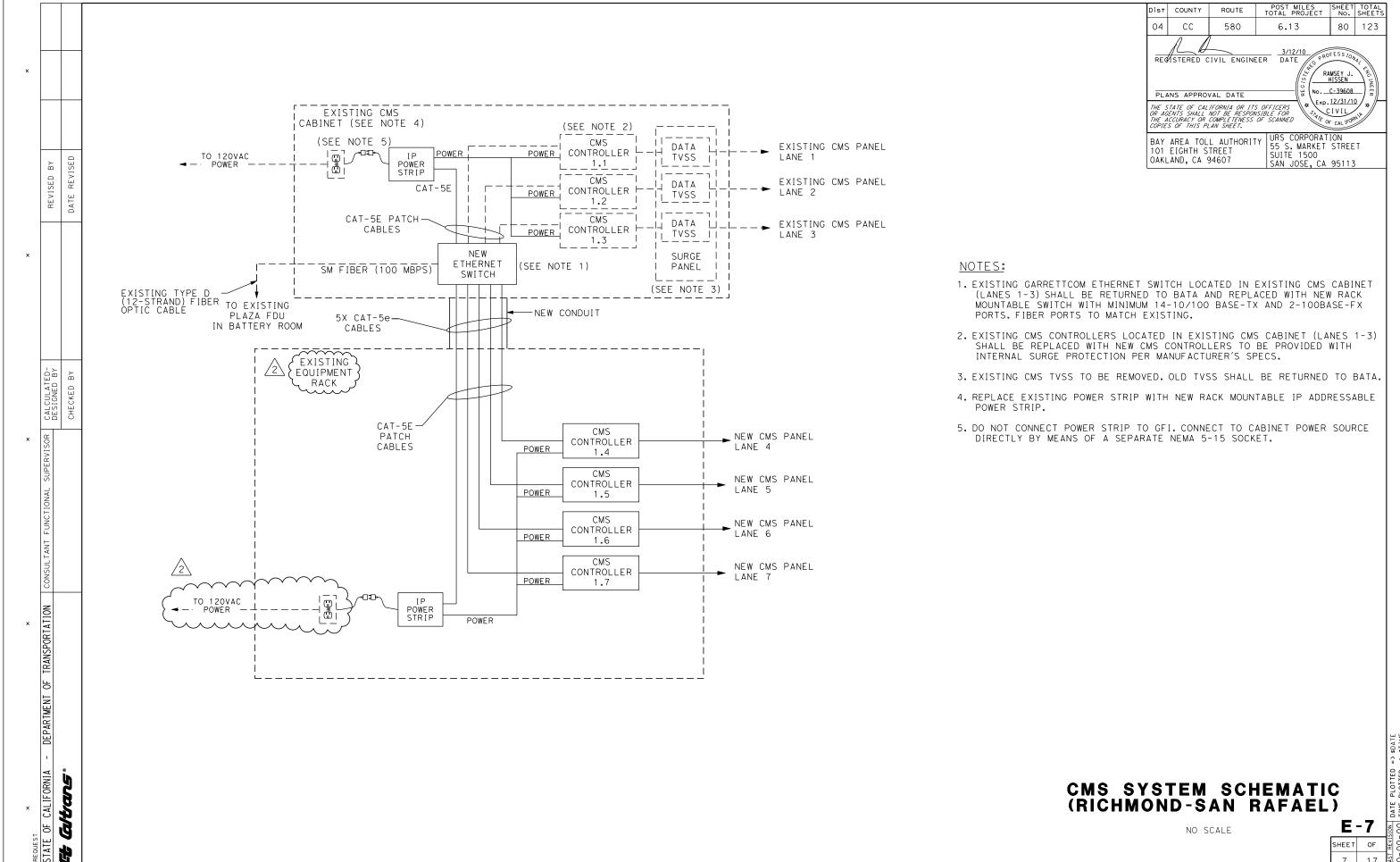


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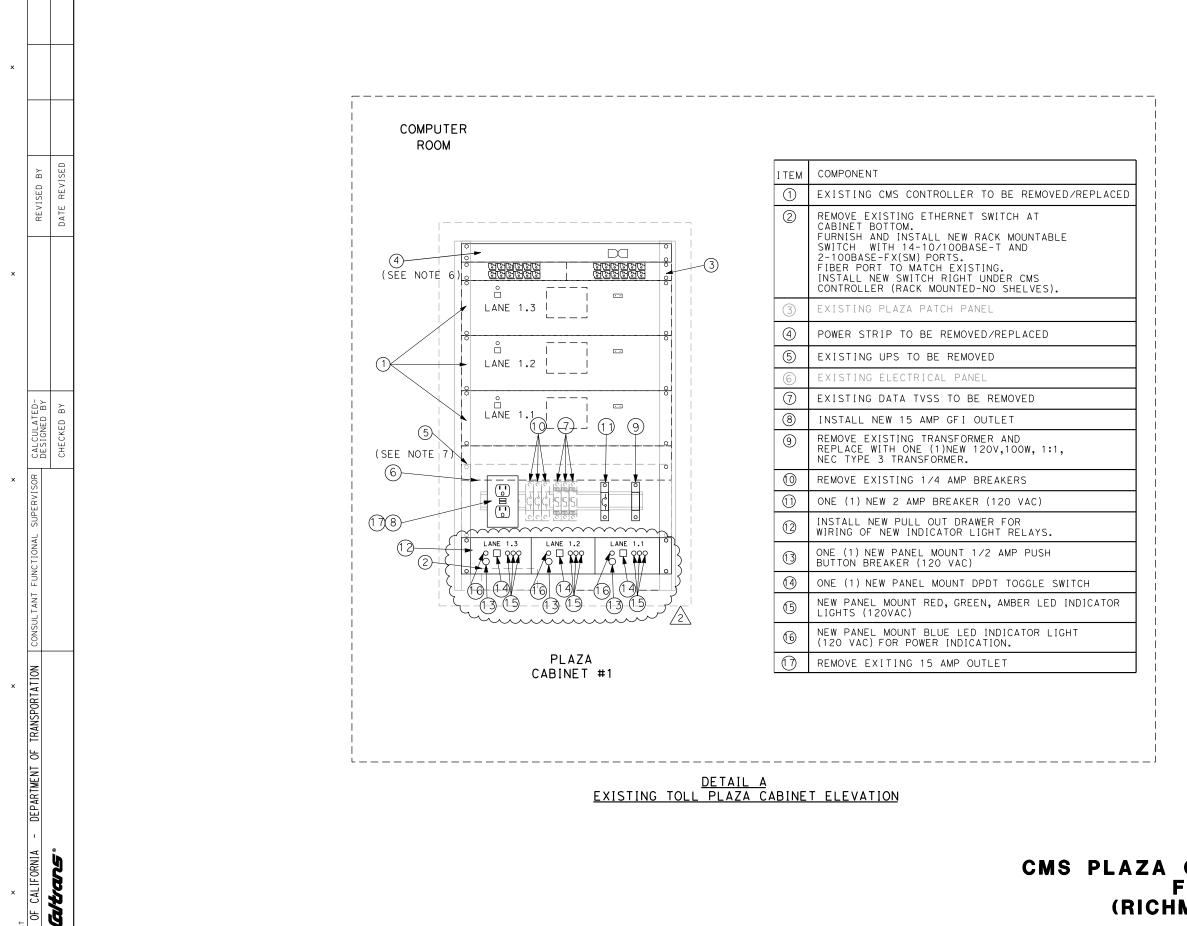


RELATIVE BORDER SCALE
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17

USERNAME => \$USER DGN FILE => \$REQUEST

CU 00000



POST MILES TOTAL PROJECT SHEET TOTAL No. SHEETS Dist COUNTY ROUTE CC 580 81 123 REGISTERED CIVIL ENGINEER DATE RAMSEY J. HISSEN ю. <u>С-39608</u> PLANS APPROVAL DATE Exp. 12/31/10 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET. CIVIL OF CAL IFOR BAY AREA TOLL AUTHORITY URS CORPORATION
101 EIGHTH STREET
OAKLAND, CA 94607
URS CORPORATION
55 S. MARKET STREET
SUITE 1500

SAN JOSE, CA 95113

1. EQUIPMENT TO MEET CALTRANS TEES REQUIREMENTS.

OAKLAND, CA 94607

- 2. ALL REMOVED EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH BATA.
- 3. CONTRACTOR TO REMOVE EXISTING TYPE 3 TRANSFORMER FROM PLAZA CABINETS.
- 4. CONTRACTOR TO REMOVE EXISTING 1/4 AMP BREAKERS.
- 5. EXISTING CMS TVSS TO BE REMOVED AND SALVAGE. CONTROLLER TO BE PROVIDED
 WITH INTERNAL SURGE PROTECTION PER MANUFACTURER'S SPECS.
- 6. EXISTING POWER STRIP TO BE REPLACED WITH NEW IP ADDRESSABLE RACK MOUNTABLE POWER STRIP. CONTRACTOR TO CONNECT ETHERNET CABLE TO NEW SWITCH.
- 7. EXISTING UPS TO BE REMOVED AND RETURNED TO BATA CONTRACTOR TO CONNECT CMS CONTROLLERS TO PANEL 'PB' UPS POWER.
- 8. ALL CABLING IN CMS CABINETS SHALL BE INSTALLED AND NEATLY DRESSED AND SECURED IN CABINETS. SPARE COILED CABLING SHALL BE PROVIDED IN JUNCTION BOXES.
- 9. CONTRACTOR TO INSTALL, CONNECT, AND INTEGRATE ALL EQUIPMENT IN CMS CABINETS (I.E., TRANSFORMERS, BREAKERS, ETC.).
- 10.EXISTING CMS CONTROLLER TO BE REPLACED WITH NEW CONTROLLER. NEW CMS CONTROLLER TO BE PROVIDED BY BATA.
- 11.CONTRACTOR TO LEAVE ONE (1) RACK UNIT OF SPACE AT BOTTOM OF CABINET.
- 12.DO NOT CONNECT POWER STRIP TO GFI. CONNECT TO CABINET POWER SOURCE DIRECTLY BY MEANS OF A SEPARATE NEMA 5-15 SOCKET.

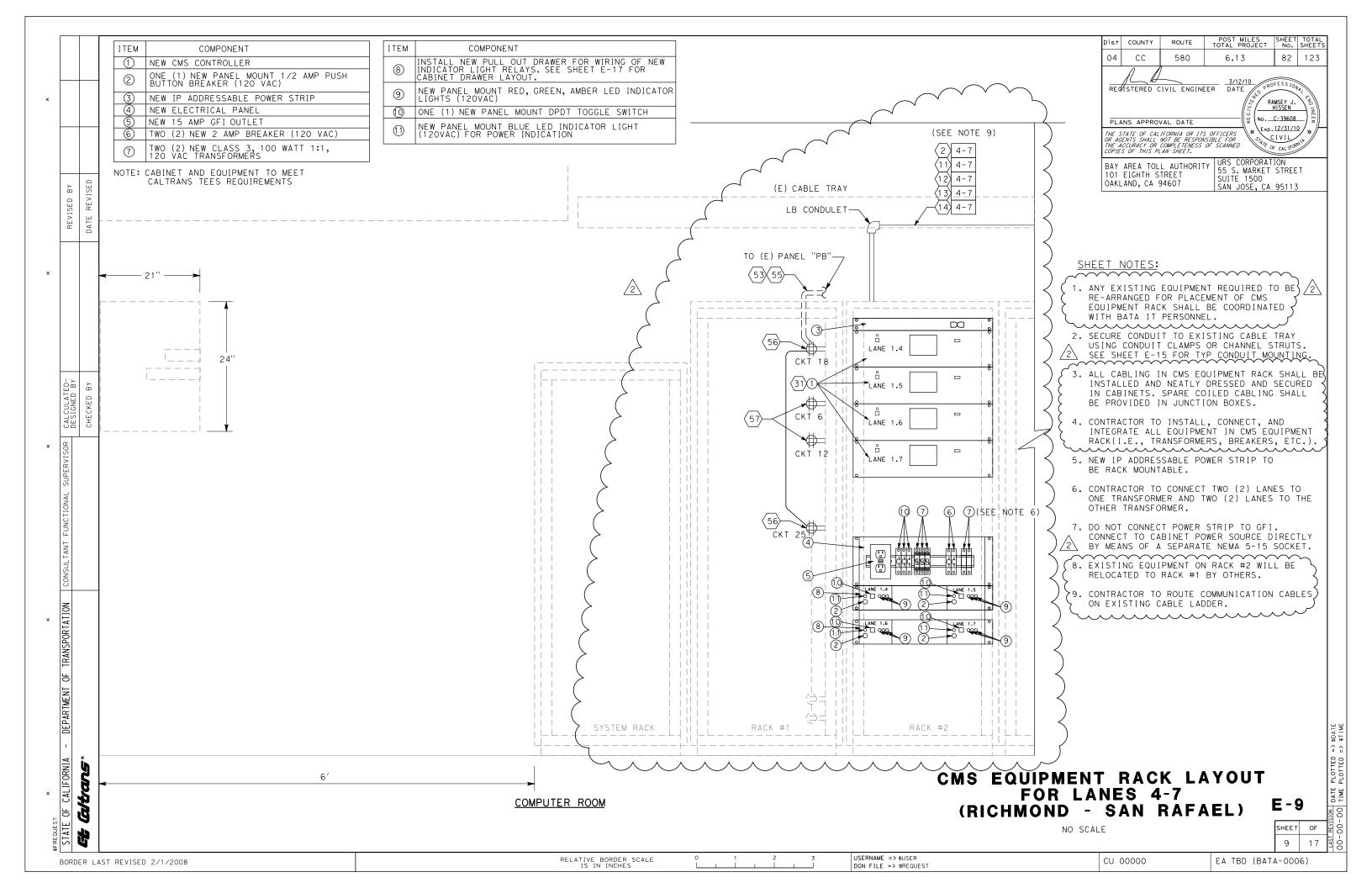
CMS PLAZA CABINET ELEVATION VIEW FOR LANES 1-3 (RICHMOND-SAN RAFAEL) E-8

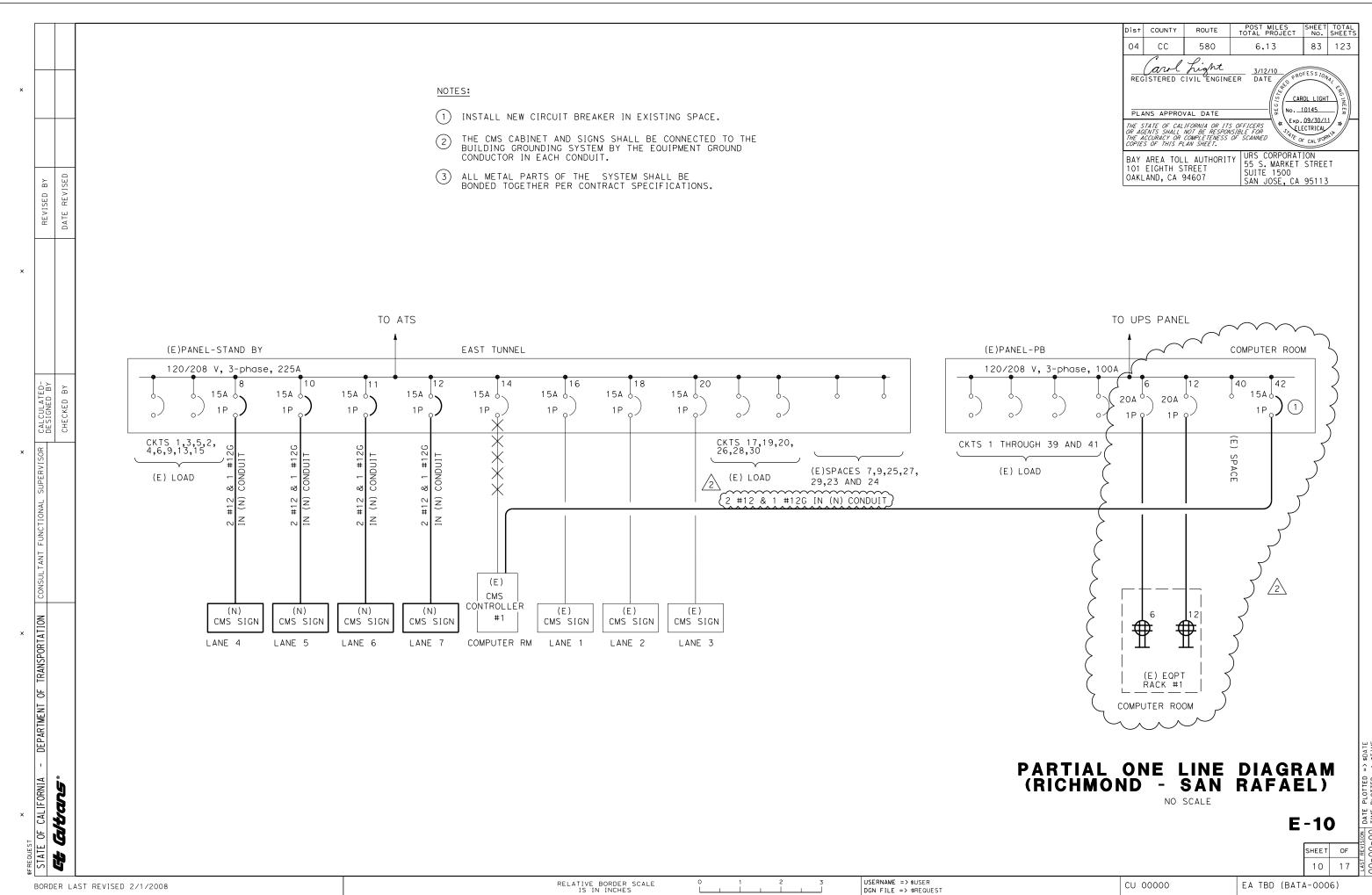
NO SCALE

SHEET OF 17

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USERNAME => \$USER RELATIVE BORDER SCALE IS IN INCHES BORDER LAST REVISED 2/1/2008 CU 00000 EA TBD (BATA-0006) DGN FILE => \$REQUEST





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OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-	REVISED BY	
Coltrans		DESIGNED B1		
		CHECKED BY	DAIE REVISED	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS					
04	СС	580	6.13	84	123					
PLANS APPROVAL DATE AND HIGHT AND HIGH AND HIGHT AND HIGH AND HIGHT AND										
OR AC	SENTS SHALL .	IFORNIA OR IT: NOT BE RESPON COMPLETENESS LAN SHEET:	S OFFICERS N. X	CTRICAL CAL IFOR	/ 4//					
101	AREA TOL EIGHTH S AND, CA S		Y URS CORPORAT 55 S. MARKET SUITE 1500 SAN JOSE, CA	STREE						

NOTES:

1 CONTRACTOR TO UPDATE BREAKER PANEL BOARD SCHEDULE AND PROVIDE A NEW TYPED WRITTEN PANEL BOARD SCHEDULE.

OAD DESCRIPTION	LTG.	G.P.	отн.	0	В	1				В	LTG.	G.P.	отн.	LOAD DESCRIPTION
		REC		АМР	POLE]			АМР	POLE		REC		
E) NEON SIGN				30		1	Α	2	100					(E) TOLL BOOTH LIGHTING
ABUTMENT FLASHER						3	В	4						(E) TOLL BOOTH LIGHTING
					3	5	С	6		3				(E) TOLL BOOTH LIGHTING
E) SPACE					1	7	Α	8	15	1			0.50	(N) CMS SIGN LN 4
E) SPACE					1	9	В	10	15	1			0.50	(N) CMS SIGN LN 5
N) CMS SIGN LN 6			0.50	15	1	11	С	12	15	1			0.50	(N) CMS SIGN LN 7
E) NORTH TUNNEL LTS				20	1	13	Α	14	15	1				(N) SPARE
E) ELEC. DOOR				20	1	15	В	16	15	1				(E) CMS SIGN #1
E) SPACE					1	17	С	18	15	1				(E) CMS SIGN #3
E) WAD				50		19	Α	20	15	1				(E) CMS SIGN #2
E) WAD						21	В	22						(E) SPACE
E) WAD					3	23	С	24						(E) SPACE
E) SPACE					1	25	Α	26	40					(E) UPS
E) SPACE					1	27	В	28						
E) SPACE					1	29	С	30		3				
								32	125					(E) PANEL UPS
								34						
								36		3				
TOTALS SECTION 1	0.00	0.00	0.50								0.00	0.00	1.50	
/OLTAGE: 120/208V	LOAD	SUMMA	ARY		1									ADDITIONAL FEATURES:
PHASE/WIRE:	CONN	ECT	DEMAI	ND	DEMA	ND			BALA	NCE:	(KVA)	%	AMPS:	
3 PHASE / 4 WIRE	LOAD		FACTO	R	LOAD				PHASI	E A:	0.50	25.00	1.39	
RATING:	0.00		125% OF		0.00				PHASI			25.00	1.39	
225A	0.00		NEC 2	20-13	0.00				PHASI	EC:	1.00	50.0	2.78	
MAINS: 225A- 3P	2.00		1.00		2.00									
	2.00	KVA			2.00	KVA								
MOUNTING:			1						1					I .
MOUNTING:	5.6	AMPS			5.6	AMPS	3							

PROJECT: BATA TO12 TOLL PLA RICHMOND/ SAN RAFAEL BRIDG					(E)	PA	NE	L	РВ					LOCATION: COMPUTER ROOM
LOAD DESCRIPTION	LTG.	G.P.	отн.		В]			С	В	LTG.	G.P.	отн.	LOAD DESCRIPTION
		REC		AMP	POLE	1			AMP	POLE		REC		
(E) COMPUTER RACK EQPT				20	1	1	Α,	2	20	1				(E) COMPUTER RACK EQPT
(E) COMPUTER RACK EQPT				20	1	3	В,	4	20	1	~~~	~~~	~~~	(E) COMPUTER RACK EQPT
(E) COMPUTER RACK EQPT				20	11	5	C ,	6	20	1		0.54		(N) RECEPT-RACK #1 EQPT 2
(E) COMPUTER RACK EQPT				20	1	7	Α,	8	20~	\sim		~~~		(E) COMPUTER RACK EQPT
(E) COMPUTER RACK EQPT				20	1	9	В,	10	20	1		~~~		(E) COMPUTER RACK EQPT
(E) COMPUTER RACK EQPT				20	1	11	С,	(12	20	1		0.54		(N) RECEPT-RACK #1 EQPT 2
(E) COMPUTER RACK EQPT				20	1	13	Α,	14	$\frac{20}{20}$	Γ_1		~~~		(E) COMPUTER RACK EQPT
(E) COMPUTER RACK EQPT				20	1	15	В	16	20	1				(E) COMPUTER RACK EQPT
(E) COMPUTER RACK EQPT				20	1	17	С	18	20	1				(E) COMPUTER RACK EQPT
(E) COMPUTER RACK EQPT				20	1	19	A (~	\sim	\checkmark		\sim	\sim	(E) COMPUTER RACK #1 EQPT
(E) VDS RELAY PANEL				20	1	21	в 👌	22	20	1				(E) COMPUTER RACK #2 EQPT. OUTLETS
(E) VDS RELAY PANEL				20	1	23	>	24	20	1				(E) RACK EQPT. OUTLETS
(E) VDS RELAY PANEL				20	1	25	٦,	26	\sim	$\mathcal{Q}_{\mathcal{Q}}$		0.36	$\overline{}$	(E) RECEPT- CAPTAIN'S OFFICE
(E) VDS RELAY PANEL				20	1	27	-	28	20	1				(E) SPARE
(E) FIRE ALARM PANEL			0.20	20	1	29	-	30	20	1		0.36		(E) RECEPT- SGT OFFICE
(E) FIRE DAMPER			0.10	20	1	31	,	32	20	1				(E) RECEPT- OPERATION CTR.
(2) 1 11(2 2) 1011 21(0.10	20	1 1	33	,	34	20	,				(E) RECEPT- UPS STORAGE ROOM
				20	1	35	٠,	36 36	$\frac{1}{20}$	→	\sim	\sim	\sim	(E) UNKNOWN LOAD
				20	1	37		38	20	1				(E) UNKNOWN LOAD }
				20	1	†	('	40	20	<u> </u>				·
					1	39	_	~ ^	ميا			~~	پیہا	(E) SPACE
TOTALS SECTION 1	0.00	0,00	0.30	20		41	C	42	15		0.00	1.80		(E) CMS CAB #1
VOLTAGE:		SUMMA									0.00	1.00	0.60	ADDITIONAL FEATURES:
120/208V														
PHASE/WIRE:	CONN	ECT	DEMA		DEMA	ND			BALAN		(KVA)		AMPS	<u>:</u>
3 PHASE / 4 WIRE	LOAD		FACTO		LOAD				PHASE			17.04	1.28	
RATING: 225A	0.00		125% OF		0.00				PHASE				0.00	
MAINS: MAIN LUG ONLY	1.80 0.90		NEC 2: 1.00	20-13	1.80 0.90				PHASE	: C:	2.24	82.96	6.22	
MAIN LUG ONLT	0.50		1.00		0.50									
MOUNTING: SURFACE	2.70	KVA			2.70	KVA								
	7.5	AMPS			7.5	AMPS								
A.I.C.:														
BUS SIZE: 225A														

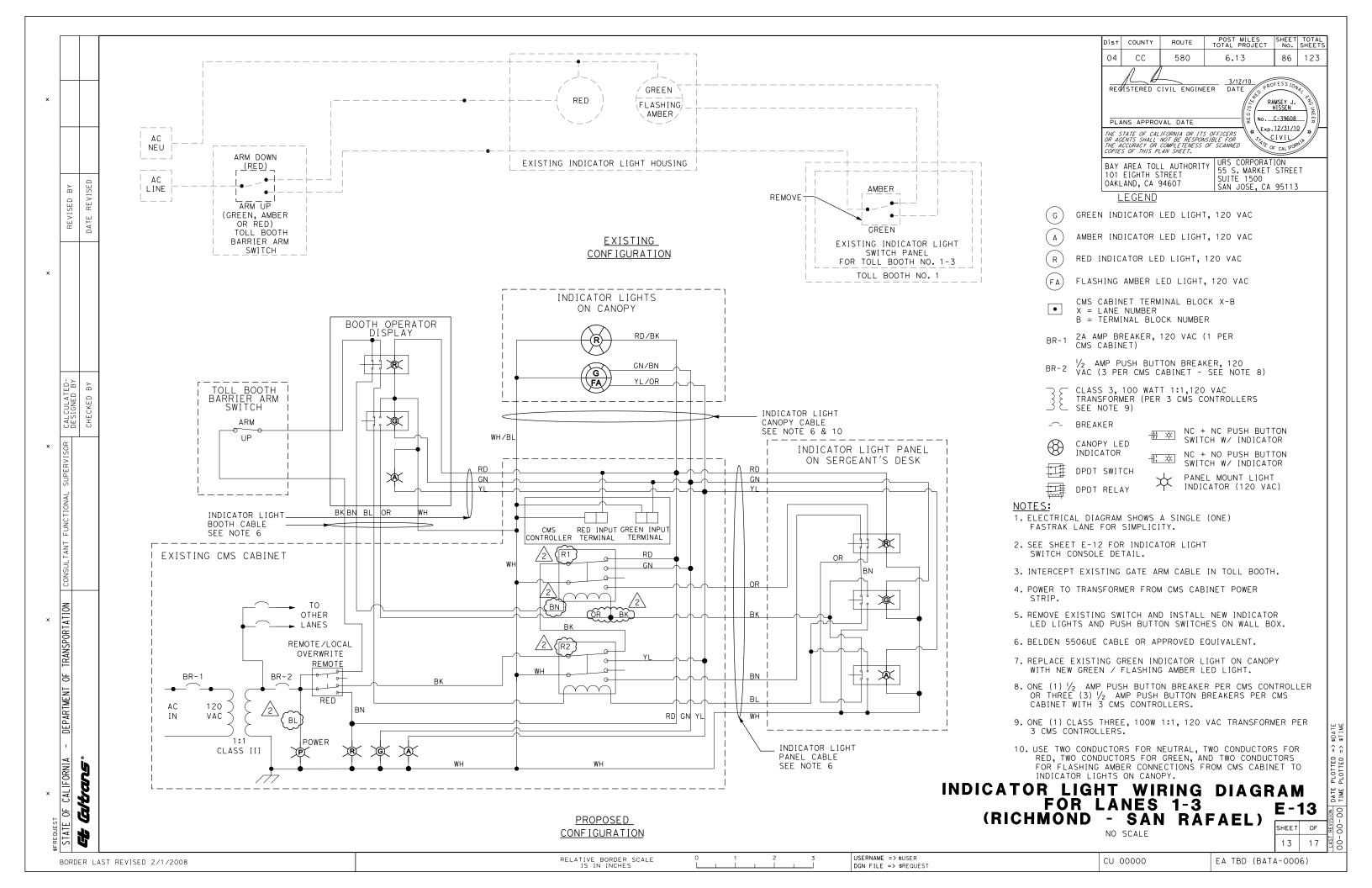
STANDBY AND PB PANELBOARD SCHEDULES (RICHMOND - SAN RAFAEL)

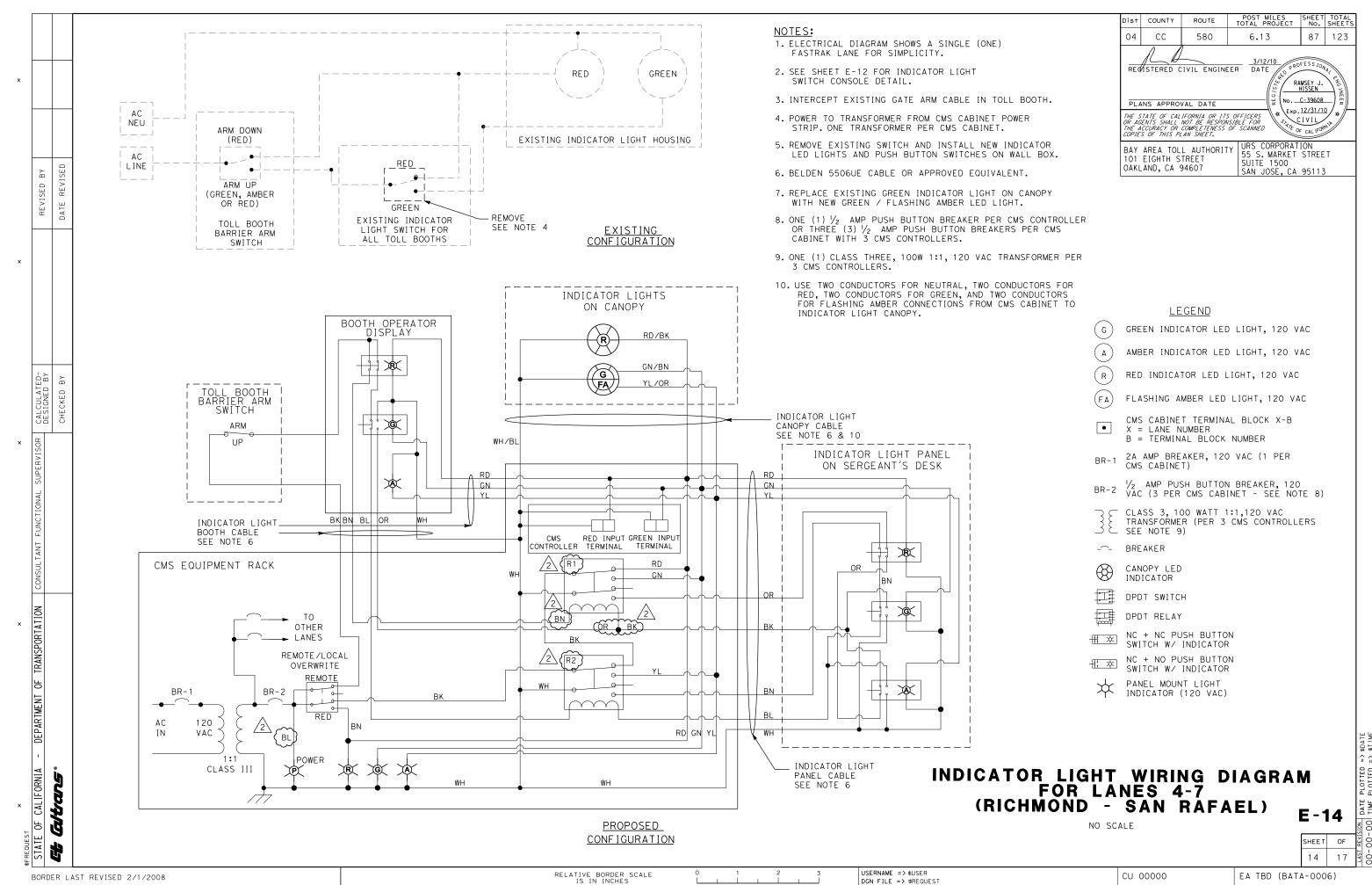
NO SCALE

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USERNAME => \$USER DGN FILE => \$REQUEST RELATIVE BORDER SCALE IS IN INCHES CU 00000 EA TBD (BATA-0006) BORDER LAST REVISED 2/1/2008

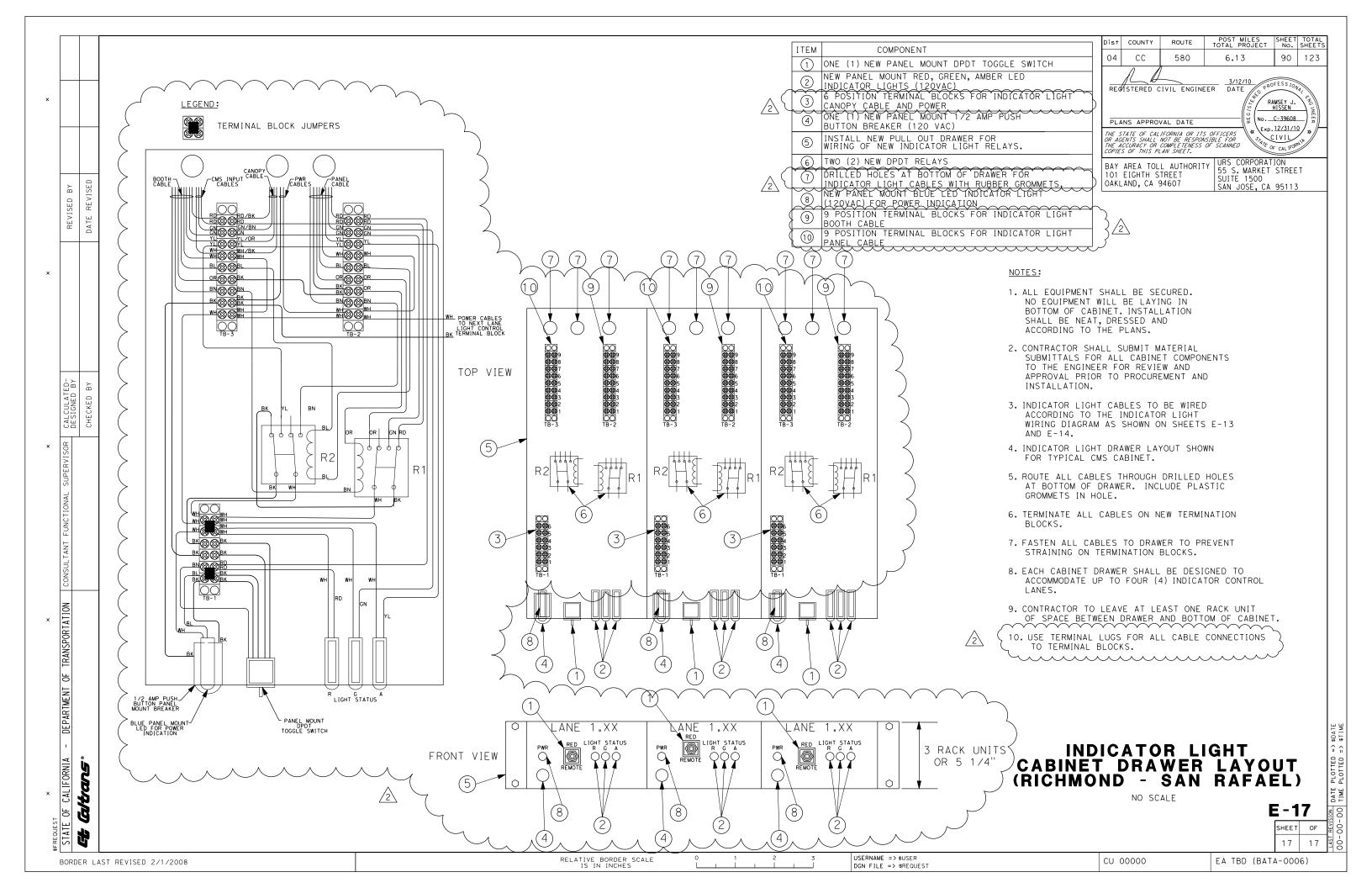


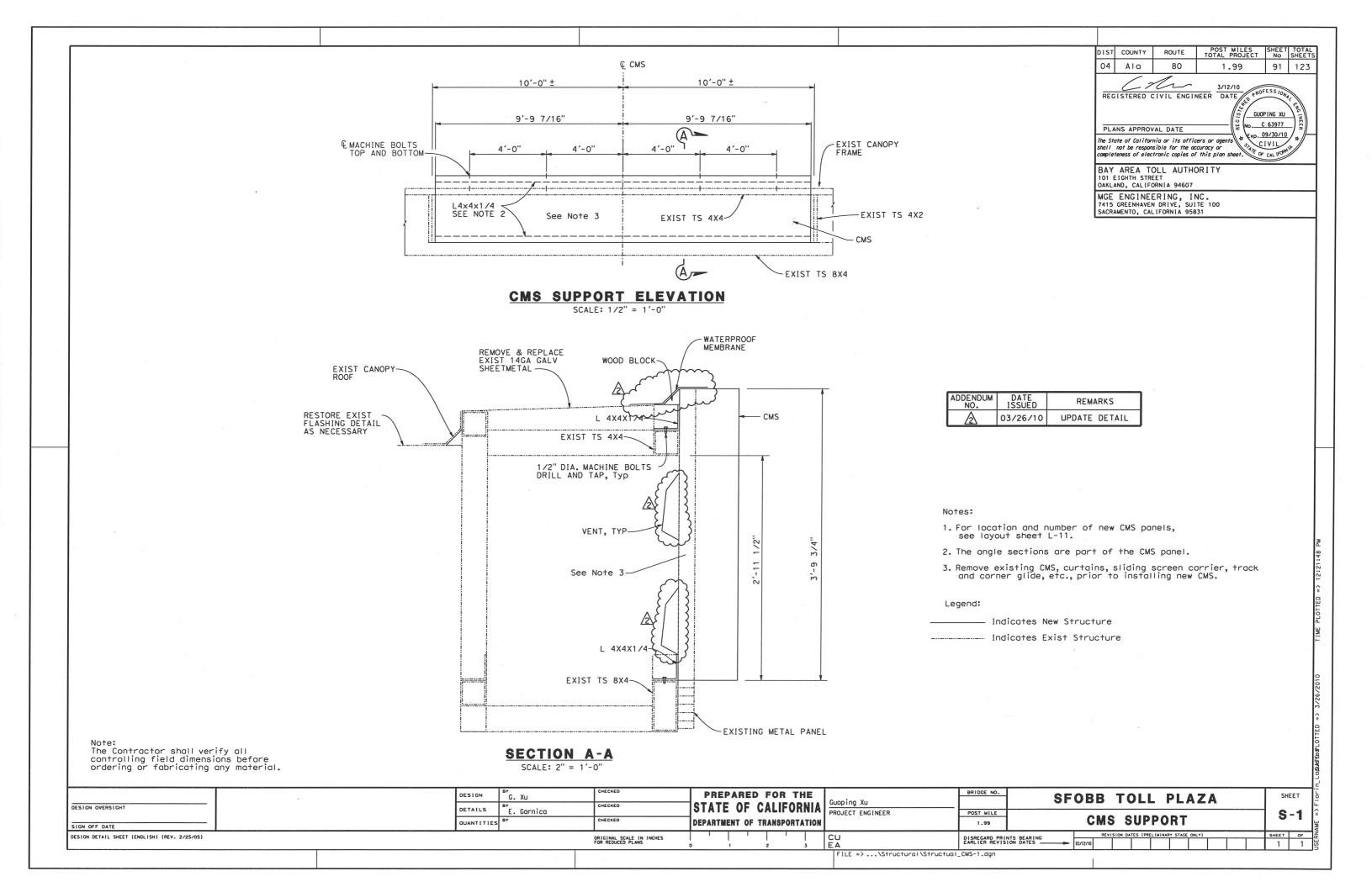


EA TBD (BATA-0006)

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CU 00000





							Dist COUNTY ROUTE POST MILES SHEET TOTAL TOTAL PROJECT No. SHEETS
	GENERAL NOTES:						04 Ala 92 R2.59 104 123
	 ALL WORK AND MATERIALS SHALL CONFORM PLAN AND SPECIFICATIONS. 	TO THE LATEST VERSION OF THE CALTRANS STAND	ARD				
		URS BEFORE EXCAVATION U.S.A. (800) 277-2600.		<u>ABBREVIATIONS</u>	<u>S:</u>		REGISTERED CIVIL ENGINEER 3/12/10 DATE OROFESS JONAL
*	3. ALL ELECTRICAL AND CMS EQUIPMENT, INFI			AM BK	AMBER BLACK		RAMSEY J. C. HISSEN.
	DAMAGED BY THE CONTRACTOR'S OPERATION AT THE CONTRACTOR'S EXPENSE.			BL	BLUE		PLANS APPROVAL DATE (No. C-39608) (P. p. 12/31/10)
			RACK ARE SHOWN	BN C	BROWN CONDUIT		I THE STATE OF CEALLFORMER OF TIS OFFICERS
		UDING CONDUITS, JUNCTION AND SPLICE EQUIPMENT LOCATIONS TO BE DETERMINED IN FIELD BY ENGINE	ER.	CAB	CABINET		COPIES OF THIS PLAN SHEET.
	 SERVICE EQUIPMENT, AND CMS CABINET EN- CMS AND OTHER ELECTRICAL EQUIPMENT AF 	RE SHOWN IN APPROXIMATE LOCATIONS ONLY.EXAC	Т	CEC CMS	CALIFORNIA ELECTRICAL CODE CHANGEABLE MESSAGE SIGN		101 EIGHTH STREET SUITE 1500
ВY		FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.		COMM CPB	COMMUNICATIONS COMMUNICATIONS PULL BOX		OAKLAND, CA 94607 SAN JOSE, CA 95113
SED	 ALL EXISTING ELECTRICAL AND COMMUNICA REFERENCE AND SHALL REMAIN IN PLACE I 	INLESS OTHERWISE NOTED LOCATIONS ARE		CKT	CIRCUIT		
REVI:	SHALL BECOME THE RESPONSIBILITY OF TH	ING ELECTRICAL AND COMMUNICATION EQUIPMENT HE CONTRACTOR TO REPAIR AT NO ADDITIONAL COST	TO BATA.	E ETC	EXISTING ELECTRONIC TOLL COLLECTION	<u>INDE X</u> E - 1	-
	7. NEW CIRCUIT BREAKERS TO BE INSTALLED TYPE OR APPROVED BY THE ENGINEER AS I	TO EXISTING PANEL BOXES SHALL MATCH THE EXIS	TING	FDU	FIBER DISTRIBUTION UNIT	E-2	GENERAL NOTES, LEGEND, ABBREVIATIONS AND INDEX OF DRAWINGS PROJECT NOTES
	8. ALL DIMENSIONS INDICATED ARE TO BE VE	·· ·		FO GFI	FIBER OPTIC GROUND FAULT INTERRUPT	E-3	TOLL PLAZA OPERATIONS BUILDING PARTIAL MAIN FLOOR CONDUIT ROUTING
×		RIFY ALL EXISTING UTILITIES, POWER SOURCES AND	POWER	GN ILB	GREEN INDICATOR LIGHT BOOTH	E-4	TOLL PLAZA OPERATIONS BUILDING LOWER LEVEL CONDUIT ROUTING
	CONSUMPTIONS AS REQUIRED OR NEEDED AS	S SHOWN ON THE PLANS PRIOR TO COMMENCING WORK	(.	ILC	INDICATOR LIGHT CANOPY	E-5	TOLL PLAZA OPERATIONS BUILDING TUNNEL TO CANOPY CONDUIT ROUTING PLAN VIEW
	10. SEE STRUCTURAL PLANS FOR EXACT LOCAT MOUNTING BRACKETS.	ION OF CMS STRUCTURES, FRAMES AND		ILP J-BOX	INDICATOR LIGHT PANEL JUNCTION BOX	E-6	TOLL PLAZA OPERATIONS BUILDING TUNNEL TO CANOPY CONDUIT ROUTING
	11. ALL ABOVE GROUND CONDUIT SHALL BE SUI	PPORTED AT A MINIMUM OF EVERY 5 FEET.		JB KVA	JUNCTION BOX KILO-VOLT AMPERE	E-7	ELEVATION VIEW LANES 1-7 CMS CABINETS ELEVATION VIEW
	12. ALL ELECTRICAL ITEMS THAT USE ANCHORS	S TO ATTACH TO THE CONCRETE STRUCTURES SHALL	USE	LCD	LIQUID CRYSTAL DISPLAY	E-7 E-8	CMS MINI TOLL PLAZA CABINET ELEVATION VIEW
		HREADED VERSION SIZED PER MANUFACTURER RECOM WITH A RATED LIFE OF 25 YEARS OR GREATER.	MENDATION	LED MLO	LIGHT EMITTING DIODE MAIN LUG ONLY	E-9	CMS MINI TOLL PLAZA FIELD CABINET WIRING SCHEMATIC FOR LANES 8-10
	13. ALL ELECTRICAL WORK SHALL MEET ALL R	EQUIREMENTS OF THE LATEST EDITIONS OF THE CEC	NEC & NATIONAL	NEC	NATIONAL ELECTRICAL CODE	E – 1 O E – 1 1	CMS PLAZA CABINET WIRING SCHEMATIC FOR LANES 1-7 CMS SYSTEM NETWORK DETAILS
TED D B)	ALL COMPONENTS INCLUDING CONDUITS JUN	S SHALL BE PROPERLY GROUNDED AND BONDED PER ICTION BOXES, CABLING, EQUIPMENT, AND CABINETS S, AND I.D. LABELS.	SHALL BE CLEARLY	N ORT	NEUTRAL (GROUNDED CONDUCTOR) OPEN ROAD TOLLING		CMS SYSTEM FIBER ASSIGNMENTS
CULA		IN TUNNEL AND TRENCH, TYPE 2 CONDUIT FOR EXPO		PB PCC	CEILING/WALL MOUNTED PULL BOX PORTLAND CEMENT CONCRETE		PARTIAL ONE LINE DIAGRAM PE AND Q PANELBOARD SCHEDULES
CALCULATED- DESIGNED BY CHECKED BY	CONDITIONS AND TYPE 4 FLEXIBLE CONDUI	T AS SHOWN ON PLANS.		PNL	PANEL	E-15	INDICATOR LIGHT SWITCH CONSOLE PANEL AND TOLL BOOTH INDICATOR SWITCH BOX.
× E	15. ALL EXTERIOR PULL BOXES AND JUNCTION	BOXES SHALL BE NEMA 4X.		PVC PWR	POLYVINYL CHLORIDE CONDUIT POWER	E-16	INDICATOR LIGHT WIRING DIAGRAM FOR LANES 1-5
SV1S0	16. ALL ELECTRICAL AND EXTERIOR CONNECTION		MOTION DOVES	RMC R#	RIGID METAL CONDUIT RELAY (# = RELAY NUMBER)	E-17	INDICATOR LIGHT WIRING DIAGRAM FOR LANES 6-10
UPER	TO BE USED ON THIS CONTRACT PRIOR TO	FIELD VERIFYING ANY EXISTING CONDUIT AND/OR JI PULLING NEW CABLE THROUGH, ANY DAMAGE TO NEW	OR EXISTING	RD	RED	E-18 E-19	JUNCTION BOX DETAILS CONDUIT MOUNTING AND ATTACHMENT DETAILS
AL S	CABLE SHALL BE THE RESPONSIBILITY OF	THE CONTRACTOR TO REPAIR AT NO ADDITIONAL CO	SI IO BAIA.	SS TEES	STAINLESS STEEL TRANSPORTATION ELECTRICAL EQUIPMENT	E-20	INDICATOR LIGHT CABINET DRAWER LAYOUT
NOIL	LEGEND:			SM	SINGLE MODE		
ONC.	CHANGEABLE MESSAGE SIGN	TERMINAL BLOCK		TB TVSS	TERMINAL BLOCKS TRANSIENT VOLTAGE SURGE SUPPRESSOR		
Z	EXISTING CONDUIT	— fo — — — EXISTING FIBER OPTIC CABLE		TYPE A CABLE	36 SINGLE MODE FIBER OPTIC CABLE		
JL TA	EXISTING CONDUIT WITH NEW CABLE	®© EXISTING TRAFFIC SIGNAL INDICATOR		TYPE D CABLE TYPE 1 CONDUIT	12 SINGLE MODE FIBER OPTIC CABLE GALVANIZED RIGID STEEL (GRS)		
ONSI	NEW CONDUIT	QUAD RECEPTICAL		TYPE 2 CONDUIT	TYPE 1 CONDUIT COATED WITH PVC OR POLYETHYLENE		
		DUPLEX RECEPTICAL		TYPE 4 CONDUIT	LIQUIDTIGHT FLEXIBLE METAL CONDUIT		
NOI	☐ JUNCTION BOX	S NEW INDICATOR LIGHT SWITCH CONSOLE PAN	EL	UPS XFMR	UNINTERRUPTIBLE POWER SUPPLY		
* TRANSPORTATION	EXISTING JUNCTION BOX	RISER CONDUITS		YL	TRANSFORMER YELLOW		
NSP0	NEW CMS MINI TOLL PLAZA FIELD CABINET	OROP CONDUITS					REVISION DATE
TRAN		NEW LED INDICATOR BOX	STANDARD NOTES:				REVISION DATE REMARKS NO. ISSUED REMARKS
9F	P# NEW CMS PLAZA CABINET	S EXISTING INDICATOR LIGHT SWITCH		OX IN EXISTING COND	DUIT RUN.		3/26/10 CMS EXPANSION, INDICATOR LIGHT CONTROL, CMS POWER
	EXISTING CMS PLAZA CABINET		\vdash	T INTO EXISTING PUL			
DEPARTMENT	© CONDUIT IN		\vdash	EXISTING CONDUCTOR	s.		
	P CONDUIT OUT		AB ABANDONED RD REMOVE AND DIS	POSE			ATE
- -	<u>'</u>		RS REMOVE AND SAL				VUS <=
NIA ®	X-Y LANE X TO LANE Y CABLES		WIDING DIAGRAM	CCND:	CENEDAL NA	OTE	
ST X CALIFORNIA			WIRING DIAGRAM LI		GENERAL N' ECTRODE ANI	D IN	S, LEGEND, ABBREVIATIONS DEX OF DRAWINGS
			CB CIRCUIT BREAKER NB NEUTRAL BUS GB GROUND BUS		KER (SAN M	ATE	O - HAYWARD RRIDGE)
			卅 ENCLOSURE BOND	RECEPTACLE		- -	
STATE OF							SHEET OF A
S S							1 20

BORDER LAST REVISED 2/1/2008

RELATIVE BORDER SCALE 0 1 2 3 USERNAME => \$USER DGN FILE => \$REQUEST

CU 00000 EA TBD (BATA-0006)

		Dist COUNTY ROUTE POST MILES SHEET TOTAL TOTAL PROJECT No. SHEETS
		04 Ala 92 R2.59 105 123
		REGISTERED CIVIL ENGINEER 3/12/10 DATE PROFESSIONAL
×		RAMSEY J. TEN HISSEN
		PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS EXP. 12/31/10 ** THE STATE OF CALIFORNIA OR ITS OFFICERS
		THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENCES OF SCANNED COPIES OF THIS PLAN SHEET.
		BAY AREA TOLL AUTHORITY URS CORPORATION
BY [SED		101 EIGHTH STREET SUITE 1500 OAKLAND, CA 94607 SAN JOSE, CA 95113
REVISED BY DATE REVISED	PROJECT NOTES: (1) Install new type d cable in existing conduit.	(26) INSTALL NEW GROUND MOUNT CMS MINI TOLL PLAZA FIELD CABINET FOR LANES 8-10 AS SPECIFIED IN CONTRACT DOCUMENTS.
REVI	2 INSTALL NEW TYPE D CABLE.	27) ROUTE NEW CMS COMM CABLE THROUGH EXISTING JUNCTION BOX.
	INSTALL NEW TYPE 2 (1" C) CONDUIT WITH (2 #12 AND 1 #126)(120 V, CMS CABINET) AND PROVIDE CONDUIT SUPPORT.	28 INSTALL NEW CMS PLAZA CABINET FOR LANES 6-7 AS SPECIFIED IN CONTRACT DOCUMENTS.
	$\langle 4 \rangle$ USE SPARE 15A-1P CIRCUIT BREAKER (#14) TO FEED NEW CMS CONTROL CABINET.	(29) INSTALL INDICATOR LIGHT SWITCH CONSOLE PANEL.
×	5 INSTALL NEW ONE (1) 15A-IP CIRCUIT BREAKER FOR NEW CMS CABINET IN (E) SPACE 42.	30 REMOVE EXISTING INDICATOR LIGHT SWITCH IN TOLL BOOTH.
	6 INSTALL TYPE 1 ($\frac{3}{4}$ " C) CONDUIT WITH $\left\{2 \pm 12 \text{ AND 1 } \pm 126\right\}$ (120 V, CMS CABINET)	31) INSTALL NEW CMS CONTROLLERS, ROUTE CAT-5E PATCH CABLES FROM EACH CMS CONTROLLER TO NEW ETHERNET SWITCH IN EXISTING CMS CABINET.
	REMOVE AND REPLACE TWO (E) 20A-1P CIRCUIT BREAKERS #6 AND #7 WITH TWO (2) 15A-1P BREAKERS (120V, CMS SIGNS).	32) INSTALL NEW TYPE 1 (2" C) CONDUIT. 33) INSTALL NEW TYPE 2 (2" C) CONDUIT.
	(8) INSTALL TYPE 3 JUNCTION BOX BELOW CANOPY AS SPECIFIED IN CONTRACT DOCUMENTS.	34 INSTALL TYPE 1 JUNCTION BOX AS SPECIFIED IN CONTRACT DOCUMENTS.
	$\langle 9 \rangle$ install new cat-5e cable.	35) INSTALL NEW TYPE 1 (1½" C) CONDUIT.
_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(10) ALL WALL, CEILING AND FLOOR PENETRATIONS SHALL BE CORE-DRILLED AS DIRECTED	36 INSTALL NEW 4"X4"X4" JUNCTION BOX
CALCULATED- DESIGNED BY CHECKED BY	AND APPROVED BY CALTRANS SUFFICIENTLY LARGE TO ACCOMMODATE CONDUIT PLUS FLUSH MOUNTED END BELL. ALL CORE-DRILLS SHALL BE MADE WATER-TIGHT, SEALED AROUND	37 DISCONNECT AT (E) PANEL-Q BRANCH CIRCUITS #13, 15, AND 17, AND LABEL BREAKERS AS SPARES.
CAL CUL, DE SI GNE CHE CKE	CONDUIT PER CALTRANS REQUIREMENTS WITH FAST-SETTING EPOXY RÉSIN THROUGHOUT THE DEPTH OF HOLE.	(38) INSTALL NEW TYPE 4 (2" C) CONDUIT
750 5	(11) INSTALL NEW INDICATOR LIGHT CANOPY CABLE.	39) INSTALL AND TERMINATE INDICATOR LIGHT CABLES TO NEW TERMINAL BLOCKS AND WIRE TO SWITCH PANEL AS SHOWN IN PLANS AND APPROVED BY THE ENGINEER.
× SS	(12) INSTALL NEW INDICATOR LIGHT BOOTH CABLE.	40 INSTALL LB FITTING.
ERVI	(13) INSTALL NEW INDICATOR LIGHT CONSOLE CABLE.	(41) INSTALL NEW LED PUSH BUTTON INDICATOR BOX.
SUP	(14) INSTALL NEW CMS COMM CABLE.	(42) PROVIDE NEW REVISED (TYPED WRITTEN) PANEL SCHEDULE. (43) INSTALL NEW TYPE 4 (1" C) CONDUIT.
ONAL	(15) EXISTING TYPE 3 JUNCTION BOX BELOW CANOPY.	43) INSTALL NEW TIPE 4 (1 C) CONDUIT.
DI LO	(16) INSTALL NEW TYPE 2 EQUIPMENT RACK. SEE SHEET E-3 AND SPECIFICATIONS FOR SIZE AND TYPE.	
. .	(17) INSTALL NEW TYPE 4 (1½" C) CONDUIT.	
TANT	(18) INSTALL NEW FIBER OPTIC DUPLEX JUMPER CABLES.	
ASUL	(19)(E) FDU TO REMAIN. (20) REMOVE AND DISPOSE OF EXISTING INDICATOR LIGHT CABLE.	
00	$\langle 21 \rangle$ install new CMS panel as specified in contract documents.	
	(22) REPLACE EXISTING RED INDICATOR LIGHT WITH NEW RED LED INDICATOR BULB. IF EXISTING	
× III	RED INDICATOR LIGHT IS LED, FURNISH NEW RED LED INDICATOR BULB TO BATA AS A SPARE. (23) ROUTE NEW CABLES THROUGH EXISTING CONDUIT.	
SPOR		
× TRANSPORTATION	(24) MODIFY EXISTING GREEN INDICATOR LIGHT AND REPLACE WITH GREEN/FLASHING AMBER LED INDICATOR BULB. REPLACE EXISTING RED INDICATOR LIGHT WITH RED LED INDICATOR BULB. IF EXISTING RED INDICATOR LIGHT IS LED, FURNISH NEW RED LED INDICATOR BULB TO BATA AS A SPARE.	
T 0F	(25) INSTALL NEW TYPE 2 (11/2" C) CONDUIT.	
DEPARTMENT		
PAR		$oxed{ig }_{\ldots}$
DE		\$0.00 PT PT PT PT PT PT PT PT
		PROJECT NOTES
CALIFORNIA		
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		(SAN MATEO - HAYWARD BRIDGE) E-2
STATE OF		SHEET OF WELL
STA]		2 20 3 5

RELATIVE BORDER SCALE IS IN INCHES

BORDER LAST REVISED 2/1/2008

CU 00000

USERNAME => \$USER DGN FILE => \$REQUEST

